ISSN 0 375-9474

APRIL 1990

NUCLEAR PHYSICS

Journal devoted to the experimental and theoretical study of the fundamental constituents of matter and their interactions

Associate Editors: G. Baym, Urbana; R. Bock, Darmstadt; J. Bondorf, Copenhagen; B. Deutch, Aarhus; K. Dietrich, Munich; J.P. Elliott, Sussex; J.D. Garrett, Oak Ridge; V. Gillet, Saclay; C. Grégoire, GANIL; S.E. Koonin, Pasadena; L.G. Moretto, Berkeley; W. Nörenberg, Darmstadt; A. Richter, Darmstadt; D. Robson, Tallahassee; R.A. Sorensen, Carnegie-Mellon; T.A. Tombrello, Pasadena; D.H. Wilkinson, Sussex

Associate Editors for Intermediate Energy: G. Baym, Urbana; H.A. Bethe, Cornell; T. Ericson, CERN; J. Hüfner, Heidelberg; M. Johnson, Los Alamos; K. Nakai, KEK; H. Palevsky, Brookhaven; F. Scheck, Mainz; I.S. Shapiro, Moscow; E. Vogt, Vancouver; K. Yazaki, Tokyo

Supervisory Editor: G. E. BROWN ***Administrative Editor: P. D. Greaves***

MASTER INDEX

VOLUMES A501-A510

SEPTEMBER 1989-APRIL 1990

THIS INDEX COMPLETES VOLUME A510

NORTH HOLLAND

NUPABL Index A501–A510

NOTE TO AUTHORS

Manuscripts for publication should be submitted to the Editorial Office at the following address: Nuclear Physics A, c/o NORDITA, Blegdamsvej 17, DK-2100 Copenhagen Ø, Denmark. Telephone: 31 42 25 40 (International: +45 31 42 25 40). Telex: 15216 nbi dk. FAX: +45 31 38 81 29. Email: greaves@nbivax.nbi.dk. EARN/Bitnet: greaves@dknbi51. HEPnet: 22105::greaves. Contributions should be accompanied by a covering letter, indicating, in case of joint authorship, to whom further correspondence, proofs, etc. should be addressed. Authors should take care that their contributions are written in good English, French or German, "broken" English is not acceptable.

Manuscripts should be prepared in accordance with the **Instructions to Contributors** (see page 3 of cover). Experimental papers for Nuclear Physics A contain an index of **keywords** (see Nucl. Phys. **68** (1965) 1).

All papers are subject to refereeing. "Letter-type" contributions and unnecessarily long papers are unacceptable. Authors should make every effort to achieve the utmost concision compatible with clarity. They should make a careful survey of the literature to ensure that papers do not duplicate previous work and that relevant existing knowledge has been taken into account. It should be realised that the criteria for refereeing are very high. **At present about 50% of the papers submitted are immediately acceptable.**

The Editors and Publishers aim at the following **time schedule**: within one week of submission the Author should have received acknowledgement of receipt of his manuscript. Within two months (normally within one month) he should have had notification of acceptance or rejection, or a request for revision. After receipt of an acceptance card, he should receive proofs within six weeks. Finally, six weeks after returning the corrected proofs, the paper should be published. If this schedule is not adhered to, Authors are requested to notify the Editorial Office and/or the Publisher.

NUCLEAR PHYSICS A is published in weekly issues. 15 volumes (60 issues) have been announced for 1990. The subscription price for these volumes is Dfl. 7320.00 including postage and handling.

NUCLEAR PHYSICS B is published in weekly issues. 18 volumes (54 issues) have been announced for 1990. The subscription price for these volumes is Dfl. 8784.00 including postage and handling.

NUCLEAR PHYSICS B [FS] (Field Theory and Statistical Systems) will cease to be available under separate subscription. It continues to appear as an integral subsection of Nuclear Physics B.

The price for a combined subscription to *both* sections A and B is Dfl. 13,233.00 including postage and handling.

SUBSCRIPTIONS should be sent to the Publishers, Elsevier Science Publishers B.V., Journals Department, P.O. Box 211, 1000 AE Amsterdam, The Netherlands, or to any subscription-agent.

CLAIMS FOR ISSUES NOT RECEIVED should be made within three months of publication. If not, they cannot be honoured free of charge.

BOOKS FOR REVIEW on nuclear and particle physics should be sent to the Editorial Office of "Nuclear Physics".

© Elsevier Science Publishers B.V. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without the written permission of the publisher, Elsevier Science Publishers B.V., P.O. Box 103, 1000 AC Amsterdam, The Netherlands.

Special regulations for authors - Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. The transfer will ensure the widest possible dissemination of information.

Submission to this journal of an article entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by the third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S.351) pursuant to article 16b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Special regulations for readers in the USA - This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond the permitted Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US $2.25, also payable through the Center. (N.B. For review journals this fee is US $0.25 per copy per page.) This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products' liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein.

Published weekly

Printed in The Netherlands

MASTER INDEX

VOLUMES A501-A510
SEPTEMBER 1989-APRIL 1990

MASTER INDEX

VOLUMES A501-A510

Abdelaziz, M., J.P. Elliott, M.J. Thompson, J.A. Evans, On the role of isoscalar bosons in lighter nuclei **A503**(1989)452

Abdullin, S.K., A.V. Blinov, I.A. Vanyushin, V.E. Grechko, S.M. Zombkovsky, Yu.V. Korolev, Ya.M. Selector, V.V. Solovyev, V.F. Turov, I.V. Chuvilo, V.N. Shulyachenko, The $^3H+p\rightarrow p+n+d$ reaction at a tritium momentum of 5 GeV/c **A506**(1990)471

Abegg, R., *see* Hutcheon **A503**(1989)649

Abegg, R., *see* Chan **A510**(1990)713

Adachi, T., *see* Masuda **A504**(1989)269

Adam Jr., J., E. Truhlik, S. Ciechanowicz, K.-M. Schmitt, Muon capture in deuterium and the meson exchange current effect **A507**(1990)675

Added, N., *see* Villari **A501**(1989)605

Adeev, G.D., V.V. Pashkevich, Theory of macroscopic fission dynamics **A502**(1989)405c

Agrawal, H.M., J.B. Garg, J.A. Harvey, $^{89}Y+n$ resonances for $E=$ 10–740 keV and intermediate structures **A501**(1989) 18

Ahmad, I., R. Holzmann, R.V.F. Janssens, P. Dendooven, M. Huyse, G. Reusen, J. Wauters, P. Van Duppen, Octupole deformation in ^{223}Ac **A505**(1989)257

Ahmad, S., C. Amsler, E.G. Auld, D.A. Axen, D. Bailey, S. Barlag, G. Beer, J.C. Bizot, M. Botlo, J.M. Butler, M. Comyn, W. Dahme, B. Delcourt, M. Doser, K.D. Duch, K.L. Erdman, F. Feld-Dahme, U. Gastaldi, M. Heel, B. Howard, R. Howard, J. Jeanjean, H. Kalinowsky, F. Kayser, E. Klempt, C. Laa, R. Landua, G.M. Marshall, B. May, H. Nguyen, J. Riedlberger, L.P. Robertson, C. Sabev, U. Schaefer, O. Schreiber, U. Straumann, P. Truoel, H. Vonach, P. Weidenauer, B.L. White, W.R. Wodrich, M. Ziegler, Evidence for a multiquark state in $\bar{p}p$ annihilation at rest **A508**(1990)317c

Akaishi, Y., *see* Harada **A507**(1990)715

Akihana, O., *see* Warner **A503**(1989)161

Alam, M.M., *see* Manngård **A504**(1989)130

Alard, J.P., *see* Bastid **A506**(1990)637

Alberg, M.A., E.M. Henley, L. Wilets, P.D. Kunz, $^3P_0$ and $^3S_1$ contributions to $\bar{p}p\rightarrow\bar{\Lambda}\Lambda$ **A508**(1990)323c

Alberico, W.M., A. Drago, C. Villavecchia, Response functions of asymmetric nuclear matter **A505**(1989)309

Alderliesten, C., *see* Endt **A510**(1990)209

Aleixo, A.N.F., C.A. Bertulani, Coulomb excitation in intermediate-energy collisions **A505**(1989)448

Aleklett, K., *see* Tengblad **A503**(1989)136

Aléonard, M.M., *see* Azaiez **A501**(1989)401

Alexandrovich, A.Ya., *see* Petrov **A502**(1989)297c

Alhassid, Y., F. Iachello, Algebraic approach to heavy-ion reactions **A501**(1989)585

Alhassid, Y., B. Bush, Effects of thermal fluctuations on giant dipole resonances in hot rotating nuclei **A509**(1990)461

Alkhazov, G.D., A.E. Barzakh, I.Ya. Chubukov, V.P. Denisov, V.S. Ivanov, N.B. Buyanov, V.N. Fedoseyev, V.S. Letokhov, V.I. Mishin, S.K. Sekatsky, Nuclear deformation of holmium isotopes **A504**(1989)549

Allaart, K., *see* Brand **A509**(1990) 1

Allaart, K., *see* Schippers **A510**(1990) 70

Amroun, A., *see* Platchkov **A508**(1990)343c

Amroun, A., *see* Platchkov **A510**(1990)740

Amsler, C., *see* Ahmad **A508**(1990)317c

Amsler, C., Experimental survey of low energy nucleon-antinucleon interactions **A508**(1990)501c

Andersen, E., *see* Westenius **A509**(1990)630

Andrejtscheff, W., L.K. Kostov, P. Petkov, Y. Sy Savane, Ch. Stoyanov, P. von Brentano, J. Eberth, R. Reinhardt, K.O. Zell, Electric quadrupole transition strengths of the type $6_1^+\rightarrow 4_1^+$ in $^{106-112}Sn$ **A505**(1989)397

Andriamonje, S., *see* Azaiez **A501**(1989)401

Antonchik, V.A., *see* Dudkin **A509**(1990)783

Antonuk, L.E., *see* Hutcheon **A503**(1989)649

Aoki, N., H. Hyuga, Gluonic effects in the color dielectric model **A505**(1989)525

Aoki, T., *see* Moon **A510**(1990)173

Arima, A., *see* Yoshida **A503**(1989) 90

Arima, A., *see* Hoshino **A506**(1990)271
Arima, A., Summary of the symposium on the occasion of the 40th anniversary of the nuclear shell model **A507**(1990)305c
Arima, A., *see* Shigehara **A510**(1990)106
Arima, M., K. Yazaki, Kaon-nucleon interaction and excited hyperons **A506**(1990)553
Armbruster, P., *see* Sida **A502**(1989)233c
Armbruster, P., *see* Gäggeler **A502**(1989)561c
Arnold, J., *see* Bastid **A506**(1990)637
Arnold, K., I. Düring, H. Kalka, H. Märten, A. Ruben, D. Seeliger, Modes of de-excitation of fission fragments **A502**(1989)325c
Asakawa, M., K. Yazaki, Chiral restoration at finite density and temperature **A504**(1989)668
Asghar, M., *see* Boucheneb **A502**(1989)261c
Auffret, S., *see* Platchkov **A508**(1990)343c
Auffret, S., *see* Platchkov **A510**(1990)740
Augerat, J., *see* Bastid **A506**(1990)637
Auld, E.G., *see* Ahmad **A508**(1990)317c
Austern, N., Finite-range integration procedure for stripping with CDCC wavefunctions **A505**(1989) 1
Axen, D.A., *see* Ahmad **A508**(1990)317c
Azaiez, F., S. Andriamonje, J.F. Chemin, M. Fidah, J.N. Scheurer, M.M. Aléonard, G. Bastin, J.P. Thibaud, F. Beck, G. Costa, J.F. Bruandet, F. Liatard, High-spin states in neutron deficient ^{106}Sn and ^{108}Sn isotopes **A501**(1989)401
Azaiez, H., *see* Dalla Torre-Colautti **A505**(1989)561
Azuelos, G., *see* Kossakowski **A503**(1989)473
Azuma, R.E., *see* Nyman **A510**(1990)189
Azuma, R.E., *see* Graff **A510**(1990)346
Baba, S., *see* Nagame **A510**(1990)518
Babinet, R., *see* Bastid **A506**(1990)637
Bacelar, J.C., *see* De Voigt **A507**(1990)447
Bacelar, J.C., *see* De Voigt **A507**(1990)472
Backenstoss, G., *see* Weber **A501**(1989)765
Bäcklin, A., *see* Kotlinski **A503**(1989)575
Bahaoui, A., C. Fayard, G.H. Lamot, T. Mizutani, The YN and $\bar{K}$N interactions and low-energy K^-d elastic scattering **A508**(1990)335c
Bailey, D., *see* Ahmad **A508**(1990)317c
Bakker, B.L.G., I.I. Strakovsky, Evidence for broad structure at 2.41 GeV in the reaction $\pi^+ d \to pp$ **A505**(1989)551
Balanda, A., *see* Stolk **A505**(1989)241
Ballester, F., E. Casal, J.B.A. England, Structure of low-lying states of ^{56,58}Fe nuclei by α-particle inelastic scattering **A501**(1989)301
Baltz, A.J., J. Weneser, Are variations in the ^{37}Cl experiment interpretable as solar matter exclusions? **A505**(1989) 67
Bandō, H., M. Sano, J. Žofka, M. Wakai, Production of hypernuclei in relativistic ion beams **A501**(1989)900
Banes, D.W., *see* Wyss **A503**(1989)244
Bang, H., *see* Forkel **A504**(1989)818
Bang, J.M., *see* Dem'yanova **A501**(1989)336
Bantel, M., *see* Glaesner **A509**(1990)331
Barden, R., *see* Szerypo **A507**(1990)357
Bark, R.A., G.D. Dracoulis, A.E. Stuchbery, A.P. Byrne, A.M. Baxter, F. Riess, P.K. Weng, Configuration-dependent deformations in ^{171}Re **A501**(1989)157
Bark, R.A., *see* Dracoulis **A510**(1990)533
Barlag, S., *see* Ahmad **A508**(1990)317c
Barnes, P.D., P. Birien, B.E. Bonner, W.H. Breunlich, G. Diebold, W. Dutty, R.A. Eisenstein, G. Ericsson, W. Eyrich, H. Fischer, R. von Frankenberg, G. Franklin, J. Franz, N. Hamann, D. Hertzog, A. Hofmann, T. Johansson, K. Kilian, C.J. Maher, M. Meyerhofer, N. Nägele, W. Oelert, S. Ohlsson, H.W. Ortner, P. Pawlek, B. Quinn, E. Rössle, H. Schledermann, H. Schmitt, G. Sehl, J. Seydoux, F. Stinzing, Investigation of the reaction $\bar{p}p \to \bar{Y}Y$ close to threshold at LEAR **A508**(1990)311c
Barnes, T., *see* Maltman **A508**(1990)371c
Barranco, M., *see* Navarro **A505**(1989)173
Barranco, M., *see* Centelles **A510**(1990)397
Barreau, G., *see* Boucheneb **A502**(1989)261c
Barrette, J., *see* Suomijärvi **A509**(1990)369
Barzakh, A.E., *see* Alkhazov **A504**(1989)549
Bastid, N., J.P. Alard, J. Arnold, J. Augerat, R. Babinet, F. Biagi, F. Brochard, M. Crouau, P. Charmensat, P. Dupieux, Z. Fodor, L. Fraysse, J. Girard, P. Gorodetzky, J. Gosset, C. Laspalles, M.C. Lemaire, A. Le Merdy, D. L'Hôte, B. Lucas, J. Marroncle, G. Montarou, M.J. Parizet, J. Poitou, D. Qassoud, C. Racca, A. Rahmani, W. Schimmerling, Y. Terrien, O. Valette, Exclusive measurements of light fragment production at forward angles in Ne-Pb and Ne-NaF collisions at $E/A = 400$ MeV and 800 MeV **A506**(1990)637
Bastin, G., *see* Azaiez **A501**(1989)401
Batty, C.J., *see* Kalbermann **A503**(1989)632

Batty, C.J., Light kaonic and antiprotonic atoms **A508**(1990) 89c

Baumann, F.-M., K.Th. Brinkmann, H. Freisleben, J. Kiesewetter, H. Sohlbach, Angular distributions of ^{230,232}Th(n, f) and the third-minimum hypothesis **A502**(1989)271c

Baur, G., M. Weber, The angular correlation in the Coulomb dissociation method for radiative capture processes of astrophysical interest **A504**(1989)352

Baur, G., C.A. Bertulani, Electromagnetic physics at relativistic heavy ion colliders, for better and for worse **A505**(1989)835

Baxter, A.M., *see* Bark **A501**(1989)157

Baye, D., P. Descouvemont, Microscopic origin of the parity and spin-orbit interactions between ^{13}C and ^{12}C **A507**(1990)497

Beaumel, D., *see* Suomijärvi **A509**(1990)369

Becha, M., *see* Zybert **A510**(1990)441

Beck, D., *see* Freedman **A508**(1990)455c

Beck, F., *see* Azaiez **A501**(1989)401

Beck, F., *see* Wehrberger **A504**(1989)797

Becker, E., *see* Brosa **A502**(1989)423c

Becker, K., *see* Rusek **A503**(1989)223

Bedau, C., *see* Wehrberger **A504**(1989)797

Beer, G., *see* Ahmad **A508**(1990)317c

Begemann-Blaich, M., *see* Wilhelmy **A502**(1989)601c

Belyaev, V.B., J. Wrzecionko, The strong interaction in mesic-molecular systems **A508**(1990)109c

Bengtsson, R., *see* Wyss **A503**(1989)244

Bengtsson, R., *see* Wyss **A505**(1989)337

Benhar, O., A. Fabrocini, S. Fantoni, The nucleon spectral function in nuclear matter **A505**(1989)267

Bennhold, C., *see* Tiator **A501**(1989)751

Bentley, M., *see* Zybert **A510**(1990)441

Benton, E.V., *see* Dudkin **A509**(1990)783

Bentz, W., *see* Fleck **A510**(1990)731

Berdichevsky, D., A. Lukasiak, W. Nörenberg, P. Rozmej, Diabatic hindrance of heavy-ion fusion **A502**(1989)395c

Berg, M., *see* Westenius **A509**(1990)630

Berger, J.F., M. Girod, D. Gogny, Constrained Hartree-Fock and beyond **A502**(1989) 85c

Bergqvist, I., *see* Chen **A505**(1989)670

Berman, B.L., *see* Vartsky **A505**(1989)328

Bernard, V., U.-G. Meissner, Chiral symmetry and charge independence of the pion-nucleon coupling constants **A508**(1990)361c

Bernas, M., *see* Sida **A502**(1989)233c

Bertrand, F., *see* Chen **A505**(1989)670

Bertulani, C.A., *see* Aleixo **A505**(1989)448

Bertulani, C.A., *see* Baur **A505**(1989)835

Bes, D.R., *see* Kurchan **A509**(1990)306

Bharuth-Ram, K., *see* Cristancho **A501**(1989)118

Bhatnagar, S., A.N. Mitra, An exactly soluble model four-body problem **A508**(1990)287c

Biagi, F., *see* Bastid **A506**(1990)637

Bielmeir, W., *see* Strate **A501**(1989) 51

Bijtebier, J., Separable bound state equations for three relativistic fermions **A508**(1990)305c

Billowes, J., *see* Gross **A501**(1989)367

Bilwes, B., *see* Ferrero **A510**(1990)360

Bilwes, R., *see* Ferrero **A510**(1990)360

Binz, R., B. van den Brandt, R. Büchle, M. Daum, Ph. Demierre, J. Franz, G. Gaillard, N. Hamann, R. Hess, J.A. Konter, F. Lehar, C. Lechanoine-Leluc, S. Mango, R. Peschina, D. Rapin, E. Rössle, P.A. Schmelzbach, H. Schmitt, R. Todenhagen, Measurements of the total cross section differences $\Delta\sigma_L$(np) and $\Delta\sigma_T$(np) in the energy range from 140 to 590 MeV **A508**(1990)267c

Birien, P., *see* Barnes **A508**(1990)311c

Birsa, R., *see* Dalla Torre-Colautti **A505**(1989)561

Birsa, R., *see* Schiavon **A505**(1989)595

Birse, M.C., *see* McGovern **A506**(1990)367

Birse, M.C., *see* McGovern **A506**(1990)392

Bizot, J.C., *see* Ahmad **A508**(1990)317c

Blaich, T., *see* Wilhelmy **A502**(1989)601c

Blankleider, B., *see* Nozawa **A508**(1990)355c

Blasi, N., *see* De Leo **A504**(1989)109

Blasi, N., *see* Schippers **A510**(1990) 70

Blatt, K., *see* Rusek **A503**(1989)223

Blin, A.H., M. Brack, Metastable hot nuclei in a semiclassical description **A504**(1989)300

Blinov, A.V., *see* Abdullin **A506**(1990)471

Blinov, A.V., I.A. Vanyushin, V.E. Grechko, S.M. Zombkovsky, L.A. Kondratyuk, Yu.V. Korolev, Ya.M. Selector, V.V. Soloviev, V.F. Turov, I.V. Chuvilo, V.N. Shulyachenko, The quasi-elastic charge exchange reaction $p^3He \rightarrow n_F ppp$ at intermediate energies **A510**(1990)803

Bloch, C., *see* Knutson **A508**(1990)185c

Blons, J., A third minimum in the fission barrier **A502**(1989)121c

Blumenfeld, Y., *see* Suomijärvi **A509**(1990)369

Bochkarev, O.V., L.V. Chulkov, A.A. Korsheninnikov, E.A. Kuz'min, I.G. Mukha, G.B. Yankov, Democratic decay of ^{6}Be states **A505**(1989)215

Bocquet, J.P., R. Brissot, Mass, energy and nuclear charge distribution of fission fragments **A502**(1989)213c
Bocquet, J.P., *see* Sida **A502**(1989)233c
Bodmer, A.R., C.E. Price, Relativistic mean field theory for nuclei **A505**(1989)123
Bogdanov, S.D., *see* Dudkin **A509**(1990)783
Bogdanova, L., V. Markushin, Non-radiative fusion in ptμ mesic molecule **A508**(1990) 29c
Boguta, J., Chiral nuclear interactions **A501**(1989)637
Bohle, D., *see* Guhr **A501**(1989) 95
Bohlen, H.G., *see* Nakayama **A507**(1990)515
Boissevain, J., *see* Wilhelmy **A502**(1989)601c
Bolsterli, M., J.A. Parmentola, Shell model of the nucleon **A507**(1990)245c
Bonatsos, D., H. Müther, Microscopic calculation of the optical-model potential for ^{40}Ca **A510**(1990) 55
Bonche, P., J. Dobaczewski, H. Flocard, P.-H. Heenen, J. Meyer, Analysis of the generator coordinate method in a study of shape isomerism in ^{194}Hg **A510**(1990)466
Bondarenko, V.A., *see* Schmidt **A504**(1989) 1
Bondorf, J.P., *see* Jakobsson **A509**(1990)195
Bondorf, J.P., *see* Westenius **A509**(1990)630
Bonner, B.E., *see* Barnes **A508**(1990)311c
Booten, J.G.L., *see* Ulbig **A505**(1989)193
Booten, J.G.L., *see* Van Hees **A507**(1990) 55c
Borbély, I., W. Grüebler, B. Vuaridel, V. König, Empirical continuation of polarization observables to the transfer pole for the determination of the deuteron D- to S-state asymptotic normalization **A503**(1989)349
Borghols, W.T.A., *see* De Leo **A504**(1989)109
Borghols, W.T.A., S. Brandenburg, J.H. Meier, J.M. Schippers, M.M. Sharma, A. van der Woude, M.N. Harakeh, A. Lindholm, L. Nilsson, S. Crona, A. Håkansson, L.P. Ekström, N. Olsson, R. De Leo, Particle decay of the giant resonance region in ^{90}Zr and especially of the giant monopole resonance **A504**(1989)231
Börner, H.G., *see* Schmidt **A504**(1989) 1
Börner, H.G., *see* Ulbig **A505**(1989)193
Bos, K., *see* Schiavon **A505**(1989)595
Bosted, P.E., *see* Freedman **A508**(1990)455c
Botlo, M., *see* Ahmad **A508**(1990)317c
Böttger, R., *see* Schölermann **A501**(1989) 86
Botvina, A.S., A.S. Iljinov, I.N. Mishustin, Multifragment break-up of nuclei by intermediate-energy protons **A507**(1990)649
Boucheneb, N., P. Geltenbort, M. Asghar, G. Barreau, T.P. Doan, F. Gönnenwein, B. Leroux, A. Oed, A. Sicre, High resolution measurements of mass, energy and nuclear charge correlations for ^{229}Th(n_{th}, f) with the Cosi Fan Tutte spectrometer **A502**(1989)261c
Boudard, A., Production of light mesons in p+d reactions **A508**(1990)229c
Bourgeois, C., *see* Roussière **A504**(1989)511
Boyd, G., *see* Freedman **A508**(1990)455c
Boyd, R.N., *see* Islam **A504**(1989)367
Brack, M., *see* Blin **A504**(1989)300
Brack, M., *see* Sharma **A504**(1989)337
Bradamante, F., *see* Dalla Torre-Colautti **A505**(1989)561
Bradamante, F., *see* Schiavon **A505**(1989)595
Brand, M.G.E., K. Allaart, W.H. Dickhoff, Nuclear response beyond mean field theory **A509**(1990) 1
Brandenburg, S., *see* Borghols **A504**(1989)231
Brandolini, F., *see* Ulbig **A505**(1989)193
Brant, S., *see* Krasznahorkay **A503**(1989)113
Bräuer, K., A. Faessler, F. Fernandez, K. Shimizu, Nucleon-nucleon interaction in a quark model with pions **A507**(1990)599
Bräuer, K., *see* Straub **A508**(1990)385c
Bredbacka, Å., M. Brenner, F.B. Malik, Level spectra, electromagnetic moments and transition rates and spectroscopic factors for odd rhodium isotopes in the Coriolis coupling model **A504**(1989) 49
Brenner, M., *see* Bredbacka **A504**(1989) 49
Brenner, M., *see* Manngård **A504**(1989)130
Breskin, A., *see* Vartsky **A505**(1989)328
Breunlich, W.H., Muon catalyzed fusion **A508**(1990) 3c
Breunlich, W.H., *see* Barnes **A508**(1990)311c
Brink, D., *see* Providência **A507**(1990)426
Brinkmann, K.Th., *see* Baumann **A502**(1989)271c
Brissot, R., *see* Bocquet **A502**(1989)213c
Brissot, R., *see* Sida **A502**(1989)233c
Britt, H.C., *see* Wilhelmy **A502**(1989)601c
Brochard, F., *see* Bastid **A506**(1990)637
Brockstedt, A., *see* Chen **A505**(1989)670
Broglia, R.A., *see* Shimizu **A509**(1990) 80
Brooks, F.D., *see* Simpson **A505**(1989)361
Brosa, U., S. Grossmann, A. Müller, E. Becker, Nuclear scission **A502**(1989)423c
Brown, B.A., Large-basis calculations: present results and future directions **A507**(1990) 25c
Brown, B.A., *see* Lamm **A510**(1990)503
Brown, G.E., *see* Park **A504**(1989)829
Brown, G.E., E. Oset, M. Vicente Vacas, W. Weise, Production of pionic modes in relativistic heavy-ion collisions **A505**(1989)823

Brown, G.E., H. Müther, M. Prakash, Effect of chiral constraints on dense nuclear matter **A506**(1990)565
Brown, G.E., QCD constraints and the shell model **A507**(1990)251c
Browne, C.P., *see* Rollefson **A507**(1990)413
Browne, C.P., *see* Lamm **A510**(1990)503
Browne, E., B. Sur, E.B. Norman, H.L. Hall, R.A. Henderson, K.T. Lesko, R.-M. Larimer, D.C. Hoffman, Nuclear penetration effects in ^{233}U **A501**(1989)477
Bruandet, J.F., *see* Azaiez **A501**(1989)401
Bruce, A.M., *see* Schmidt **A504**(1989) 1
Brüchle, W., *see* Gäggeler **A502**(1989)561c
Bruno, M., F. Cannata, M. D'Agostino, M.L. Fiandri, M. Herman, H.M. Hofmann, B. Vuaridel, W. Grüebler, V. König, P.A. Schmelzbach, K. Elsener, Barshay–Temmer test for the ^{4}He($\vec{d}$, ^{3}He)^{3}H reaction **A501**(1989)462
Bruno, M., *see* Clajus **A508**(1990)261c
Buballa, M., *see* Drożdż **A501**(1989)487
Büchle, R., *see* Binz **A508**(1990)267c
Bugg, D.V., Recent results on NN physics **A508**(1990)209c
Bunatian, G.G., The nucleon size in nuclear matter **A509**(1990)736
Burkardt, M., The virial theorem and the structure of the deuteron in 1+1-dimensional QCD on the light cone **A504**(1989)762
Bush, B., *see* Alhassid **A509**(1990)461
Butler, J.M., *see* Ahmad **A508**(1990)317c
Butler, P.A., *see* Heil **A506**(1990)223
Büttgen, R., K. Holinde, A. Müller-Groeling, J. Speth, P. Wyborny, A meson exchange model for the K^+N interaction **A506**(1990)586
Buyanov, N.B., *see* Alkhazov **A504**(1989)549
Byrd, R.C., *see* Knutson **A508**(1990)185c
Byrne, A.P., *see* Bark **A501**(1989)157
Byrne, A.P., *see* Dracoulis **A509**(1990)605
Caballero, J.A., E. Moya de Guerra, Momentum distributions in axially symmetric deformed nuclei: The Nilsson model **A509**(1990)117
Camerini, P., *see* Rui **A508**(1990)551c
Cameron, J.A., *see* Dasmahapatra **A509**(1990)393
Cannata, F., *see* Bruno **A501**(1989)462
Cannata, F., *see* Clajus **A508**(1990)261c
Cao, Z.-J., *see* Li **A509**(1990)757
Carlson, C.E., Applications of perturbative QCD to few body systems **A508**(1990)481c
Carlson, J., Green's function Monte Carlo calculations of light nuclei **A508**(1990)141c
Carrasco, R.C., *see* Chiang **A510**(1990)573
Carvalho, J., *see* Rowe **A504**(1989) 76
Casal, E., *see* Ballester **A501**(1989)301
Cassing, W., *see* Niita **A504**(1989)391
Casten, R.F., *see* Schmidt **A504**(1989) 1
Casten, R.F., *see* Wohn **A507**(1990)141c
Castillejo, L., P.S.J. Jones, A.D. Jackson, J.J.M. Verbaarschott, A. Jackson, Dense skyrmion systems **A501**(1989)801
Catford, W.N., L.K. Fifield, N.A. Orr, C.L. Woods, Study of ^{19}N and ^{21}O by multinucleon transfer **A503**(1989)263
Caurier, E., *see* Okołowicz **A501**(1989)289
Caurier, E., S. Drożdż, J. Okołowicz, M. Ploszajczak, The time-dependent variational description of nuclear transition probabilities **A506**(1990)262
Caurier, E., *see* Okołowicz **A507**(1990)323
Cavedon, J.M., *see* Platchkov **A508**(1990)343c
Cavedon, J.M., *see* Platchkov **A510**(1990)740
Cebra, D., *see* Wilhelmy **A502**(1989)601c
Centelles, M., M. Pi, X. Viñas, F. Garcias, M. Barranco, Self-consistent extended Thomas–Fermi calculations in nuclei **A510**(1990)397
Chadwick, M.B., *see* Marcinkowski **A501**(1989) 1
Chalupka, A., *see* Schmidt **A504**(1989) 1
Champagne, A.E., A.J. Howard, M.S. Smith, P.V. Magnus, P.D. Parker, The effect of weak resonances on the ^{26}Mg(p, γ)^{26}Al reaction rate **A505**(1989)384
Champagne, A.E., *see* Magnus **A506**(1990)332
Chan, C., T.E. Drake, R. Abegg, D. Frekers, O. Häusser, K. Hicks, D.A. Hutcheon, L. Lee, C.A. Miller, R. Schubank, S. Yen, A complete measurement of spin-observables for intermediate-energy inclusive quasielastic polarized proton scattering from ^{12}C **A510**(1990)713
Chan, Y.D., *see* Wilhelmy **A502**(1989)601c
Charmensat, P., *see* Bastid **A506**(1990)637
Charvet, J.L., *see* Jiang **A503**(1989)560
Chemin, J.F., *see* Azaiez **A501**(1989)401
Chen, X.Y., L.W. Swenson, F. Farzanpay, D.K. McDaniels, Z. Xu, Z. Tang, D.M. Drake, I. Bergqvist, A. Brockstedt, J. Lisantti, F. Bertrand, D.J. Horen, K. Hicks, M. Vetterli, M.J. Iqbal, Analyzing powers and cross sections of inclusive polarized proton scattering on ^{208}Pb **A505**(1989)670
Cheon, T., *see* Takeuchi **A508**(1990)247c
Chiang, H.C., E. Oset, R.C. Carrasco, J. Nieves, J. Navarro, Inclusive radiative pion capture in nuclei **A510**(1990)573

Chiang, H.C., E. Oset, P. Fernández de Córdoba, Muon capture revisited **A510**(1990)591
Ching, C., T. Ho, B. Zou, Contribution of the two-nucleon pion absorption-emission mechanism to the pion-nucleus double-charge-exchange reaction **A510**(1990)630
Chishti, A.A., *see* Gross **A501**(1989)367
Chishti, A.A., W. Gelletly, C.J. Lister, J.H. McNeill, B.J. Varley, D.J.G. Love, O. Skeppstedt, High-spin states in ^{75}Kr **A501**(1989)568
Chomaz, Ph., *see* Suomijärvi **A509**(1990)369
Christov, Chr.V., E. Ruiz Arriola, K. Goeke, Properties of the nucleon in the nuclear medium within a chiral quark-meson theory **A510**(1990)689
Chubukov, I.Ya., *see* Alkhazov **A504**(1989)549
Chulkov, L.V., *see* Bochkarev **A505**(1989)215
Chuvilo, I.V., *see* Abdullin **A506**(1990)471
Chuvilo, I.V., *see* Blinov **A510**(1990)803
Ciechanowicz, S., *see* Adam Jr. **A507**(1990)675
Cierjacks, S., *see* Weber **A501**(1989)765
Ciofi degli Atti, C., E. Pace, G. Salme, Asymptotic scaling function and nucleon momentum distribution in few-nucleon systems **A508**(1990)349c
Clajus, M., P.M. Egun, W. Grüebler, P. Hautle, W. Kretschmer, A. Rauscher, W. Schuster, R. Weidmann, M. Haller, M. Bruno, F. Cannata, M. D'Agostino, I. Slaus, P.A. Schmelzbach, B. Vuaridel, F. Sperisen, H. Witała, Th. Cornelius, W. Glöckle, Investigation of ε_1 and the ^3P_J phase shifts in the n-p system by the measurement of polarization transfer coefficients in p-d elastic scattering **A508**(1990)261c
Clark, D., *see* Kotlinski **A503**(1989)575
Clément, G., *see* Stern **A504**(1989)621
Cline, D., *see* Kotlinski **A503**(1989)575
Close, F.E., The proton's spin: A quark model perspective **A508**(1990)413c
Clough, A.S., *see* Schiavon **A505**(1989)595
Co', G., A.M. Lallena, The role of the spin-dependent part of the nucleon-nucleon effective interaction in the excitation of magnetic states of ^{208}Pb **A510**(1990)139
Cohen, T.D., *see* Griegel **A510**(1990)671
Collins, D., *see* Freedman **A508**(1990)455c
Collot, J., *see* Hutcheon **A503**(1989)649
Colvin, G.G., *see* Schmidt **A504**(1989) 1
Comyn, M., *see* Ahmad **A508**(1990)317c
Corcalciuc, V., *see* Heide **A504**(1989)374
Corn, P.B., *see* Islam **A504**(1989)367
Cornelius, Th., *see* Glöckle **A508**(1990)115c
Cornelius, Th., *see* Clajus **A508**(1990)261c
Costa, G., *see* Azaiez **A501**(1989)401
Cramer, B., *see* Schwinn **A502**(1989)551c
Cramer, B., *see* Jiang **A503**(1989)560
Crawford, H.J., *see* Dudkin **A509**(1990)783
Cristancho, F., K.P. Lieb, J. Heese, C.J. Gross, W. Fieber, Th. Osipowicz, S. Ulbig, K. Bharuth-Ram, S. Skoda, J. Eberth, A. Dewald, P. von Brentano, Sidefeeding times and level lifetimes measured in the reaction ^{54}Fe(^{32}S, 3p)^{83}Y **A501**(1989)118
Crona, S., *see* Borghols **A504**(1989)231
Crouau, M., *see* Bastid **A506**(1990)637
Cruz Barrios, S., *see* Kurchan **A509**(1990)306
Cub, J., *see* Strate **A501**(1989) 51
Cubero, M., *see* Schönhofen **A504**(1989)875
Čujec, B., *see* Dasmahapatra **A509**(1990)393
Ćwiok, S., *see* Patyk **A502**(1989)591c
Dacai, A., *see* Wilhelmy **A502**(1989)601c
D'Agostino, M., *see* Bruno **A501**(1989)462
D'Agostino, M., *see* Clajus **A508**(1990)261c
Dahme, W., *see* Ahmad **A508**(1990)317c
Dalkarov, O.D., K.V. Protasov, e^+e^- annihilation near $\bar{N}N$ threshold **A504**(1989)845
Dalla Torre-Colautti, S., R. Birsa, F. Bradamante, M. Giorgi, L. Lanceri, A. Martin, A. Penzo, P. Schiavon, V. Sossi, A. Villari, H. Azaiez, K. Kuroda, A. Michalowicz, F. Lehar, Measurement of the polarization of the proton-proton elastic reaction at small scattering angles between 940 and 2440 MeV **A505**(1989)561
Dalla Torre-Colautti, S., *see* Schiavon **A505**(1989)595
Da Providência Jr., J., Thomas-Fermi description of nuclear rotations **A510**(1990)322
Dasmahapatra, B., B. Čujec, F. Lahlou, I.M. Szöghy, S.C. Gujrathi, G. Kajrys, J.A. Cameron, Cross-section measurements for ^{7}Li + ^{11}B and ^{7}Li + ^{13}C reactions at low energies **A509**(1990)393
Daum, M., *see* Binz **A508**(1990)267c
Davidson, N.J., R.M. Quick, H.G. Miller, Approximations to angular momentum projection in mean field calculations **A505**(1989)300
De Jager, C.W., *see* Guhr **A501**(1989) 95
De Kok, J.-L., *see* Rijken **A508**(1990)173c
Delcourt, B., *see* Ahmad **A508**(1990)317c
De Leo, R., N. Blasi, S. Micheletti, M. Pignanelli, W.T.A. Borghols,

J.M. Schippers, S.Y. van der Werf, G. Maino, M.N. Harakeh, Multipole strength distribution in ^{112}Cd **A504**(1989)109
De Leo, R., *see* Borghols **A504**(1989)231
Deleplanque, M.A., *see* De Voigt **A507**(1990)447
Deleplanque, M.A., *see* De Voigt **A507**(1990)472
Deloff, A., Hyperon–nucleon final-state interaction in the reaction pp→K$^+$YN **A505**(1989)583
Demierre, Ph., *see* Binz **A508**(1990)267c
Dem'yanova, A.S., J.M. Bang, F.A. Gareev, S.A. Goncharov, S.N. Ershov, A.A. Ogloblin, P.P. Korovin, Investigation of the nucleus–nucleus interaction at small distances in elastic scattering of ^{6}Li and the reaction (^{6}Li, ^{6}He) on carbon isotopes **A501**(1989)336
Dendooven, P., *see* Ahmad **A505**(1989)257
Denisov, V.P., *see* Alkhazov **A504**(1989)549
De Passos, E.J.V., D.J. Rowe, M.G. Vassanji, Boson representation of the nuclear shell model charge and current densities **A510**(1990)381
Deruytter, A., *see* Wagemans **A502**(1989)287c
De Sanctis, M., Relativistic corrections to photon scattering polarizabilities **A503**(1989)779
De Saussure, D., *see* Moore **A502**(1989)443c
Descouvemont, P., A microscopic approach to fusion reactions **A504**(1989)193
Descouvemont, P., *see* Baye **A507**(1990)497
De Swart, J.J., *see* Rijken **A508**(1990)173c
De Voigt, M.J.A., R. Kaczarowski, H.J. Riezebos, R.F. Noorman, J.C. Bacelar, M.A. Deleplanque, R.M. Diamond, F.S. Stephens, Rotational bands in ^{181}Pt **A507**(1990)447
De Voigt, M.J.A., R. Kaczarowski, H.J. Riezebos, R.F. Noorman, J.C. Bacelar, M.A. Deleplanque, R.M. Diamond, F.S. Stephens, J. Sauvage, B. Roussière, Collective and quasiparticle excitations in ^{180}Pt **A507**(1990)472
De Vries, H., *see* Guhr **A501**(1989) 95
Dewald, A., *see* Cristancho **A501**(1989)118
Dewald, A., *see* Zipper **A504**(1989) 36
Dewald, A., *see* Wyss **A505**(1989)337
Dewey, M.S., *see* Ulbig **A505**(1989)193
De Witt Huberts, P.K.A., *see* Guhr **A501**(1989) 95
De Witt Huberts, P.K.A., Evidence for nucleon–nucleon correlations in heavy nuclei from the proton knockout reaction (e, e'p) **A507**(1990)189c
Diamond, R.M., *see* De Voigt **A507**(1990)447
Diamond, R.M., *see* De Voigt **A507**(1990)472
Diaz Alonso, J., A. Perez Canyellas, H. Sivak, Linear response and Friedel oscillations of the pion field in relativistic nuclear matter **A505**(1989)695
Dichter, B., *see* Wilhelmy **A502**(1989)601c
Dichter, W., *see* Zipper **A504**(1989) 36
Dickhoff, W.H., *see* Ramos **A503**(1989) 1
Dickhoff, W.H., *see* Brand **A509**(1990) 1
Diebold, G., *see* Barnes **A508**(1990)311c
Dieperink, A.E.L., *see* Uchiyama **A503**(1989)723
Dietrich, K., *see* Strumberger **A502**(1989)523c
Dinger, U., J. Eberz, G. Huber, R. Menges, R. Kirchner, O. Klepper, T. Kühl, D. Marx, Nuclear moments and change in the charge radii of neutron-deficient silver isotopes **A503**(1989)331
Doan, T.P., *see* Boucheneb **A502**(1989)261c
Dobaczewski, J., Fermion expansions for boson systems **A506**(1990)293
Dobaczewski, J., *see* Bonche **A510**(1990)466
Dobeš, J., *see* Navrátil **A507**(1990)340
Dodig-Crnković, G., F.A. Janouch, R.J. Liotta, An exact shell-model treatment of α-clustering and absolute α-decay **A501**(1989)533
Dombrádi, Zs., *see* Krasznahorkay **A503**(1989)113
Dombrádi, Zs., *see* Gulyás **A506**(1990)196
Donnelly, T.W., J. Dubach, I. Sick, Isospin dependences in parity-violating electron scattering **A503**(1989)589
Donnelly, T.W., *see* García-Recio **A509**(1990)221
Döring, J., *see* Schwengner **A509**(1990)550
Doser, M., *see* Ahmad **A508**(1990)317c
Doubre, H., *see* Jiang **A503**(1989)560
Dracoulis, G.D., *see* Bark **A501**(1989)157
Dracoulis, G.D., T. Kibédi, A.P. Byrne, B. Fabricius, A.E. Stuchbery, Conversion coefficients and yrast state spins in ^{180}Os **A509**(1990)605
Dracoulis, G.D., B. Fabricius, R.A. Bark, A.E. Stuchbery, D.G. Popescu, T. Kibédi, Intrinsic states and rotational bands in ^{177}Pt **A510**(1990)533
Drago, A., *see* Alberico **A505**(1989)309
Drake, D.M., *see* Chen **A505**(1989)670
Drake, T.E., *see* Chan **A510**(1990)713
Drechsel, D., *see* Tiator **A508**(1990)541c
Dreux, P., *see* Platchkov **A508**(1990)343c
Dreux, P., *see* Platchkov **A510**(1990)740
Drożdż, S., *see* Okołowicz **A501**(1989)289
Drożdż, S., M. Buballa, S. Krewald, J. Speth, Many-body coherence effects in quasielastic electron scattering **A501**(1989)487
Drożdż, S., *see* Caurier **A506**(1990)262
Drożdż, S., *see* Okołowicz **A507**(1990)323
Dubach, J., *see* Donnelly **A503**(1989)589
Duch, K.D., *see* Ahmad **A508**(1990)317c
Duclos, J., *see* Platchkov **A508**(1990)343c
Duclos, J., *see* Platchkov **A510**(1990)740

Dudkin, V.E., E.E. Kovalev, N.A. Nefedov, V.A. Antonchik, S.D. Bogdanov, V.I. Ostroumov, H.J. Crawford, E.V. Benton, Multiplicities of secondaries in interactions of 1.8 GeV/nucleon ^{56}Fe nuclei with photoemulsion and the cascade evaporation model **A509**(1990)783
Dünnweber, W., *see* Glaesner **A509**(1990)331
Dupieux, P., *see* Bastid **A506**(1990)637
Düring, I., *see* Arnold **A502**(1989)325c
Dutty, W., *see* Barnes **A508**(1990)311c
Dymarz, R., C.J. Morningstar, R. Gourishankar, F.C. Khanna, Coupling channel model of the NN system with virtual Δ-isobars in a nonrelativistic OBE model **A507**(1990)531
Dymarz, R., F.C. Khanna, e$^-$d scattering and Δ-isobars in the deuteron **A507**(1990)560
Eberth, J., *see* Cristancho **A501**(1989)118
Eberth, J., *see* Andrejtscheff **A505**(1989)397
Eberz, J., *see* Dinger **A503**(1989)331
Ebneth, A., *see* Strate **A501**(1989) 51
Eckle, F.J., G. Eckle, F. Merz, H.J. Maier, H. Kader, G. Graw, High-resolution spectroscopy of ^{32}P (I). The ^{31}P($\vec{d}$, p) study **A501**(1989)413
Eckle, F.J., H. Lenske, G. Eckle, G. Graw, R. Hertenberger, H. Kader, H.J. Maier, F. Merz, H. Nann, P. Schiemenz, H.H. Wolter, Investigation of single-particle strength distributions in a high-resolution ^{40}Ca($\vec{d}$, p) study at $E_d = 20$ MeV **A506**(1990)159
Eckle, G., *see* Eckle, F.J. **A501**(1989)413
Eckle, G., *see* Eckle, F.J. **A506**(1990)159
Egun, P.M., *see* Clajus **A508**(1990)261c
Eisenberg, J.M., G. Kälbermann, Skyrmions for two baryon systems **A508**(1990)395c
Eisenstein, R.A., *see* Barnes **A508**(1990)311c
Ekström, L.P., *see* Borghols **A504**(1989)231
Elliott, J.P., *see* Abdelaziz **A503**(1989)452
Elliott, J.P., *see* Thompson **A504**(1989)436
Elliott, J.P., The shell model today **A507**(1990) 15c
Elsener, K., *see* Bruno **A501**(1989)462
Elster, C., Nucleon-nucleon interaction at intermediate energies and related nuclear processes **A508**(1990)197c
Emery, G.T., *see* Todd Baker **A501**(1989)546
Emrich, H.J., *see* Weber **A502**(1989)279c
Emrich, H.J., *see* Weber **A510**(1990) 1
Endt, P.M., C. Alderliesten, F. Zijderhand, A.A. Wolters, A.G.M. van Hees, Spectroscopic information on ^{24}Mg and ^{28}Si from proton capture **A510**(1990)209
Engel, J., *see* Pittel **A507**(1990)239c
England, J.B.A., *see* Ballester **A501**(1989)301
England, J.B.A., *see* Zybert **A510**(1990)441
Engler, G., *see* Vartsky **A505**(1989)328
Erdman, K.L., *see* Ahmad **A508**(1990)317c
Eremin, N.V., V.F. Strizhov, B.V. Govorov, Bremsstrahlung study of nuclear reaction dynamics: The ^{12}C + p reaction **A510**(1990)125
Ericsson, G., *see* Barnes **A508**(1990)311c
Erö, J., *see* Franz **A510**(1990)774
Ershov, S.N., *see* Dem'yanova **A501**(1989)336
Evans, J.A., *see* Abdelaziz **A503**(1989)452
Evans, J.A., *see* Thompson **A504**(1989)436
Eyrich, W., *see* Barnes **A508**(1990)311c
Fabre de la Ripelle, M., *see* Leeb **A508**(1990)365c
Fabricius, B., *see* Dracoulis **A509**(1990)605
Fabricius, B., *see* Dracoulis **A510**(1990)533
Fabrocini, A., S. Fantoni, Microscopic calculation of the longitudinal response of nuclear matter **A503**(1989)375
Fabrocini, A., *see* Benhar **A505**(1989)267
Faessler, A., *see* Gutsche **A503**(1989)737
Faessler, A., *see* Petrovici **A504**(1989)277
Faessler, A., *see* Bräuer **A507**(1990)599
Faessler, A., *see* Straub **A508**(1990)385c
Faessler, A., Conference summary **A508**(1990)617c
Faessler, A., *see* Lipas **A509**(1990)509
Fai, G., *see* Jakobsson **A509**(1990)195
Fallon, P., *see* Zybert **A510**(1990)441
Fantoni, S., *see* Fabrocini **A503**(1989)375
Fantoni, S., *see* Benhar **A505**(1989)267
Farzanpay, F., *see* Chen **A505**(1989)670
Faust, H.R., *see* Sida **A502**(1989)233c
Fayard, C., *see* Bahaoui **A508**(1990)335c
Fedoseyev, V.N., *see* Alkhazov **A504**(1989)549
Feld-Dahme, F., *see* Ahmad **A508**(1990)317c
Feldmeier, H., *see* Schönhofen **A504**(1989)875
Feng, D.H., *see* Zhang **A505**(1989) 7
Fényes, T., *see* Gulyás **A506**(1990)196
Fernandez, B., *see* Suomijärvi **A509**(1990)369
Fernandez, F., *see* Bräuer **A507**(1990)599
Fernández de Córdoba, P., *see* Chiang **A510**(1990)591
Ferrero, J.L., J.A. Ruiz, B. Bilwes, R. Bilwes, Parity dependence in the optical potential of sd-shell nuclei **A510**(1990)360
Feshbach, H., Hypernuclei and the shell model **A507**(1990)219c
Fiandri, M.L., *see* Bruno **A501**(1989)462
Fick, D., *see* Rusek **A503**(1989)223
Fidah, M., *see* Azaiez **A501**(1989)401
Fieber, W., *see* Cristancho **A501**(1989)118
Fiedeldey, H., *see* Leeb **A508**(1990)365c
Field, G.M., *see* Zybert **A510**(1990)441
Fields, D.J., *see* Wilhelmy **A502**(1989)601c
Fifield, L.K., *see* Catford **A503**(1989)263
Filippone, B.W., *see* Freedman **A508**(1990)455c
Finckh, E., *see* Strate **A501**(1989) 51

Finlay, R.W., *see* Marcinkowski **A501**(1989) 1
Fischer, H., *see* Barnes **A508**(1990)311c
Fleck, S., W. Bentz, K. Shimizu, K. Yazaki, A sigma-omega-quark model to saturate nuclear matter **A510**(1990)731
Fleischhauer, R., W. Scheid, Corrections of semiclassical virtual photon numbers in Coulomb scattering for energy loss of projectile **A504**(1989)855
Fleischhauer, R., W. Scheid, Coulomb and photo cross sections for nucleon emission from relativistic ^{16}O projectiles **A510**(1990)817
Flocard, H., *see* Bonche **A510**(1990)466
Fodor, Z., *see* Bastid **A506**(1990)637
Fodor, Z., *see* Franz **A510**(1990)774
Folger, H., *see* Gäggeler **A502**(1989)561c
Fonseca, A.C., Four-body calculation of ^{4}He binding energy and tensor analysing powers for dd→dd and dd→p ^{3}H reactions **A508**(1990)281c
Forkel, H., A.D. Jackson, M. Rho, C. Weiss, A. Wirzba, H. Bang, Chiral symmetry restoration and the Skyrme model **A504**(1989)818
Forkel, H., A.D. Jackson, M. Rho, N.N. Scoccola, Kaon condensation on the hypersphere **A509**(1990)673
Foroughi, F., *see* Smyrski **A501**(1989)319
Fotina, O.V., *see* Platonov **A503**(1989)461
Fowler, M.M., *see* Wilhelmy **A502**(1989)601c
Fraenkel, Z., *see* Wilhelmy **A502**(1989)601c
Franklin, G., *see* Barnes **A508**(1990)311c
Franz, J., *see* Binz **A508**(1990)267c
Franz, J., *see* Barnes **A508**(1990)311c
Franz, J., P. Koncz, E. Rössle, C. Sauerwein, H. Schmitt, K. Schmoll, J. Erö, Z. Fodor, J. Kecskeméti, Zs. Kovács, Z. Seres, Neutron-induced production of protons, deuterons and tritons on copper and bismuth **A510**(1990)774
Frascaria, N., *see* Suomijärvi **A509**(1990)369
Fraysse, L., *see* Bastid **A506**(1990)637
Freedman, S.J., D.F. Geesman, R. Gilman, M.C. Green, R.J. Holt, H.E. Jackson, E.R. Kinney, R. Kowalczyk, C. Marchand, J. Napolitano, J. Nelson, D. Potterveld, B. Zeidman, R.E. Segel, T.-Y. Tung, D. Beck, G. Boyd, D. Collins, B.W. Filippone, J. Jourdan, R.D. McKeown, R. Milner, R. Walker, C. Woodward, P.E. Bosted, Z.-E. Meziani, R. Minehart, High energy deuteron photodisintegration **A508**(1990)455c
Frehaut, J., *see* Jiang **A503**(1989)560
Freisleben, H., *see* Baumann **A502**(1989)271c
Frekers, D., *see* Chan **A510**(1990)713
Friedman, E., *see* Kalbermann **A503**(1989)632
Friedrichs, H., *see* Heil **A506**(1990)223
Friess, H., *see* Strate **A501**(1989) 51
Frois, B., *see* Platchkov **A508**(1990)343c
Frois, B., *see* Platchkov **A510**(1990)740
Fuchs, G., *see* Strate **A501**(1989) 51
Fujita, T., N. Suzuki, A model for polarizations of Λ^0 in inclusive proton-proton collisions at high energy **A503**(1989)899
Fujiwara, I., *see* Sakamoto **A501**(1989)693
Fujiwara, M., *see* Warner **A503**(1989)161
Fukasawa, T., *see* Sakamoto **A501**(1989)693
Fukunaga, K., *see* Warner **A503**(1989)161
Funke, L., *see* Schwengner **A509**(1990)550
Furić, M., *see* Weber **A501**(1989)765
Furono, K., *see* Moon **A510**(1990)173
Gaarde, C., Spin-isospin excitations **A507**(1990) 79c
Gácsi, Z., *see* Krasznahorkay **A503**(1989)113
Gäggeler, W.H., D.T. Jost, A. Türler, P. Armbruster, W. Brüchle, H. Folger, F.P. Hessberger, S. Hofmann, G. Münzenberg, V. Ninov, W. Reisdorg, M. Schädel, K. Sümmerer, J.V. Kratz, U. Scherer, M.E. Leino, Cold fusion reactions with ^{48}Ca **A502**(1989)561c
Gaillard, G., *see* Hutcheon **A503**(1989)649
Gaillard, G., *see* Binz **A508**(1990)267c
Gal, A., *see* Kalbermann **A503**(1989)632
Galin, J., *see* Jiang **A503**(1989)560
García-Recio, C., H. Krivine, Nguyen Van Giai, J. Navarro, The Thomas-Fermi method and polarizability of nuclei **A507**(1990)385
García-Recio, C., T.W. Donnelly, E. Moya de Guerra, Studies of $(\vec{e}, e'\vec{\gamma}_1\vec{\gamma}_2\cdots)$ reactions and electromagnetic currents in rotational nuclei **A509**(1990)221
Garcias, F., *see* Centelles **A510**(1990)397
Garcon, M., Polarization measurements in elastic electron-deuteron scattering **A508**(1990)445c
Gareev, F.A., *see* Dem'yanova **A501**(1989)336
Garg, J.B., *see* Agrawal **A501**(1989) 18
Garron, J.P., *see* Suomijärvi **A509**(1990)369
Garuska, U., *see* Marcinkowski **A510**(1990) 93
Gastaldi, U., *see* Ahmad **A508**(1990)317c
Gastebois, J., *see* Suomijärvi **A509**(1990)369
Gatty, B., *see* Jiang **A503**(1989)560
Gavron, A., Heavy ion fission - An inherently non-equilibrium process? **A502**(1989)515c
Gavron, A., *see* Wilhelmy **A502**(1989)601c
Gebhardt, K., *see* Strate **A501**(1989) 51
Geesman, D.F., *see* Freedman **A508**(1990)455c
Geissdörfer, K., *see* Strate **A501**(1989) 51

Gelberg, A., *see* Wyss **A505**(1989)337
Gelletly, W., *see* Gross **A501**(1989)367
Gelletly, W., *see* Chishti **A501**(1989)568
Geltenbort, P., *see* Boucheneb **A502**(1989)261c
Gentner, R., *see* Rösch **A509**(1990)615
Gering, M., *see* Schönhofen **A504**(1989)875
Gerlach, A., *see* Rusek **A503**(1989)223
Gill, D.R., KAON: A green field for strong interaction studies **A508**(1990)589c
Gill, R.L., *see* Wohn **A507**(1990)141c
Gilman, R., *see* Freedman **A508**(1990)455c
Gils, H.J., *see* Heide **A504**(1989)374
Ginocchio, J.N., *see* Zhang **A505**(1989) 7
Giorgi, M., *see* Dalla Torre-Colautti **A505**(1989)561
Girard, J., *see* Bastid **A506**(1990)637
Girod, M., *see* Berger **A502**(1989) 85c
Giroux, J., *see* Rusek **A503**(1989)223
Giusti, C., F.D. Pacati, Complete determination of scattering amplitudes and nucleon polarization in electromagnetic knock-out reactions **A504**(1989)685
Gizon, A., *see* Wyss **A505**(1989)337
Gizon, J., *see* Wyss **A505**(1989)337
Glaesner, A., W. Dünnweber, M. Bantel, W. Hering, D. Konnerth, R. Ritzka, W. Trautmann, W. Trombik, W. Zipper, Structure phenomena in the orbiting $^{12}C+^{24}Mg$ system **A509**(1990)331
Glässel, P., R. Schmidt-Fabian, D. Schwalm, D. Habs, H.U. von Helmolt, ^{252}Cf fission revisited - new insights into the fission process **A502**(1989)315c
Glaudemans, P.W.M., *see* Takahara **A504**(1989)167
Glaudemans, P.W.M., *see* Van Hees **A507**(1990) 55c
Gleissl, P., *see* Sharma **A504**(1989)337
Glöckle, W., H. Witała, Th. Cornelius, Three nucleon scattering - A test for nuclear dynamics **A508**(1990)115c
Glöckle, W., *see* Clajus **A508**(1990)261c
Gmitro, M., S.S. Kamalov, F. Šimkovic, A.A. Ovchinnikova, Ordinary and radiative muon capture on ^{12}C **A507**(1990)707
Goeke, K., *see* Christov **A510**(1990)689
Gogny, D., *see* Berger **A502**(1989) 85c
Goldberg, M.B., *see* Vartsky **A505**(1989)328
Goldschmidt, A., *see* Vartsky **A505**(1989)328
Golub, R., H. Yoshiki, Ultra-cold anti-neutrons (UCN̄) (I). The approach to the semi-classical limit **A501**(1989)869
Goncharov, S.A., *see* Dem'yanova **A501**(1989)336
Gönnenwein, F., Recent developments of experimental techniques **A502**(1989)159c
Gönnenwein, F., *see* Boucheneb **A502**(1989)261c
González, P., V. Vento, Quark effects in nuclei: One- and two-body observables **A501**(1989)710
Goodman, A.L., Moment of inertia and rotational frequency in hot rotating ^{158}Yb nuclei **A504**(1989)413
Gorodetzky, P., *see* Bastid **A506**(1990)637
Görres, J., *see* Graff **A510**(1990)346
Görres, J., *see* Lamm **A510**(1990)503
Gosset, J., *see* Bastid **A506**(1990)637
Gourishankar, R., *see* Dymarz **A507**(1990)531
Goutte, D., *see* Platchkov **A508**(1990)343c
Goutte, D., *see* Platchkov **A510**(1990)740
Govorov, B.V., *see* Eremin **A510**(1990)125
Grabmayr, P., *see* Ryckebusch **A505**(1989)755
Graff, S., J. Görres, M. Wiescher, R.E. Azuma, J. King, J. Vise, G.H. Hardie, T.R. Wang, Proton capture on ^{28}Si and its astrophysical implications **A510**(1990)346
Graff, S.M., *see* Lamm **A510**(1990)503
Granderath, A., *see* Wyss **A505**(1989)337
Graw, G., *see* Eckle **A501**(1989)413
Graw, G., *see* Eckle **A506**(1990)159
Grawe, H., *see* Maj **A509**(1990)413
Grechko, V.E., *see* Abdullin **A506**(1990)471
Grechko, V.E., *see* Blinov **A510**(1990)803
Green, A.M., G.Q. Liu, S. Wycech, Meson-meson scattering via a multi-plaquette interaction **A509**(1990)687
Green, M.C., *see* Freedman **A508**(1990)455c
Green, P.W., *see* Hutcheon **A503**(1989)649
Greeniaus, L.G., *see* Hutcheon **A503**(1989)649
Grégoire, C., *see* Sébille **A501**(1989)137
Greiner, W., *see* Poenaru **A502**(1989) 59c
Griegel, D.K., T.D. Cohen, Vacuum effects of non-nucleonic baryons in nuclear matter **A510**(1990)671
Grimm, M.A., *see* Todd Baker **A501**(1989)546
Grion, N., *see* Rui **A508**(1990)551c
Grivot, P., *see* Kossakowski **A503**(1989)473
Gross, C.J., *see* Cristancho **A501**(1989)118
Gross, C.J., J. Heese, K.P. Lieb, S. Ulbig, W. Nazarewicz, C.J. Lister, B.J. Varley, J. Billowes, A.A. Chishti, J.H. McNeill, W. Gelletly, Band crossings and near-rigid rotation in ^{76}Kr and ^{78}Kr **A501**(1989)367
Grossmann, S., *see* Brosa **A502**(1989)423c
Grüebler, W., *see* Bruno **A501**(1989)462
Grüebler, W., *see* Borbély **A503**(1989)349
Grüebler, W., *see* Clajus **A508**(1990)261c
Grümmer, F., *see* Petrovici **A504**(1989)277
Grün, N., *see* Thiel **A504**(1989)864
Gu, X., *see* Islam **A504**(1989)367
Gubbi, G.K., *see* Manohar **A502**(1989)307c
Guerreau, D., *see* Jiang **A503**(1989)560
Guhr, T., K.-D. Hummel, G. Kilgus, D. Bohle, A. Richter, C.W. de

Jager, H. de Vries, P.K.A. de Witt Huberts, On the nature of low-lying electric dipole excitations in light and heavy deformed nuclei **A501**(1989) 95
Gujrathi, S.C., *see* Dasmahapatra **A509**(1990)393
Gulyás, J., Zs. Dombrádi, T. Fényes, J. Timár, A. Passoja, J. Kumpulainen, R. Julin, Structure of ^{106}In nucleus **A506**(1990)196
Gusev, V.V., A.A. Kvitsinsky, V.E. Markushin, L.I. Ponomarev, Calculation of the probabilities of the muon sticking to helium in the muon catalyzed fusion $dt\mu \rightarrow \mu^4He+n$ in the Coulomb hyperspherical basis for the three body problem **A508**(1990) 35c
Gustafsson, H.-Å., *see* Westenius **A509**(1990)630
Gutsche, T., M. Maruyama, A. Faessler, Proton–antiproton annihilation into three mesons in flight in the $^3P_0$ model with a planar quark diagram topology **A503**(1989)737
Guttormsen, M., *see* Maj **A509**(1990)413
Habs, D., Spectroscopy of the second minimum **A502**(1989)105c
Habs, D., *see* Glässel **A502**(1989)315c
Hachemi, H., *see* Platchkov **A508**(1990)343c
Hachemi, H., *see* Platchkov **A510**(1990)740
Hadjimichael, E., Panel discussion on three-body systems and three-body forces **A508**(1990)161c
Haeberli, W., *see* Smyrski **A501**(1989)319
Hagberg, E., *see* Hardy **A509**(1990)429
Hagn, E., *see* Hinfurtner **A504**(1989)467
Hagn, E., *see* Hinfurtner **A509**(1990)541
Haidenbauer, J., T. Hippchen, K. Holinde, The Bonn $N\bar{N}$ potential and the range of $N\bar{N}$ annihilation **A508**(1990)329c
Haider, W., *see* Street **A504**(1989)323
Håkansson, A., *see* Borghols **A504**(1989)231
Halderson, D., A.S. Rosenthal, ETA photoproduction on the deuteron **A501**(1989)856
Hall, H.L., *see* Browne **A501**(1989)477
Hall, J.R., *see* Schiavon **A505**(1989)595
Haller, M., *see* Clajus **A508**(1990)261c
Hamajima, Y., *see* Sakamoto **A501**(1989)693
Hamamoto, I., B. Mottelson, Shell model and high-spin and deformation **A507**(1990) 65c
Hamann, N., *see* Binz **A508**(1990)267c
Hamann, N., *see* Barnes **A508**(1990)311c
Hambsch, F.-J., *see* Weigmann **A502**(1989)177c
Hansen, L.F., *see* Wilhelmy **A502**(1989)601c
Hansen, O., *see* Wilhelmy **A502**(1989)601c
Hansen, P.G., *see* Nyman **A510**(1990)189
Hansper, V.Y., C.I.W. Tingwell, S.G. Tims, A.F. Scott, D.G. Sargood, The $^{45}Sc(\alpha, p)^{48}Ti$ and $^{45}Sc(\alpha, n)^{48}V$ cross sections **A504**(1989)605
Harada, T., S. Shinmura, Y. Akaishi, H. Tanaka, Structure of the $^4_\Sigma$He hypernuclear bound state **A507**(1990)715
Harakeh, M.N., *see* De Leo **A504**(1989)109
Harakeh, M.N., *see* Borghols **A504**(1989)231
Harakeh, M.N., *see* Stolk **A505**(1989)241
Hardie, G.H., *see* Graff **A510**(1990)346
Hardy, J.C., I.S. Towner, V.T. Koslowsky, E. Hagberg, H. Schmeing, Superallowed $0^+ \rightarrow 0^+$ nuclear β-decays: A critical survey with tests of CVC and the standard model **A509**(1990)429
Harima, Y., *see* Kitazawa **A510**(1990)429
Harissopulos, S., *see* Wyss **A505**(1989)337
Harmon, A., *see* Wilhelmy **A502**(1989)601c
Harter, H., *see* Lipas **A509**(1990)509
Harty, P.D., *see* Karataglidis **A501**(1989)108
Harvey, J.A., *see* Agrawal **A501**(1989) 18
Harvey, M., Physical interpretation of the chiral soliton lagrangians for hadrons **A508**(1990)405c
Hasegawa, T., *see* Yasue **A509**(1990)141
Hasegawa, T., *see* Yasue **A510**(1990)285
Hata, K., *see* Nagame **A510**(1990)518
Hatsukawa, Y., *see* Nagame **A510**(1990)518
Hattula, J., *see* Juutinen **A504**(1989)205
Hausman, H.J., *see* Rollefson **A507**(1990)413
Häusser, O., *see* Chan **A510**(1990)713
Hautle, P., *see* Clajus **A508**(1990)261c
Haxton, W.C., Neutrino nucleosynthesis in supernovae: shell model predictions **A507**(1990)179c
Hayakawa, S.I., *see* Yasue **A509**(1990)141
Hayakawa, S.I., *see* Yasue **A510**(1990)285
Hayano, R.S., *see* Toki **A501**(1989)653
Hayano, R.S., Production and structure of light Σ hypernuclei **A508**(1990) 99c
Heeg, P., *see* Theobald **A502**(1989)343c
Heel, M., *see* Ahmad **A508**(1990)317c
Heenen, P.-H., *see* Bonche **A510**(1990)466
Heer, E., *see* Schiavon **A505**(1989)595
Heese, J., *see* Cristancho **A501**(1989)118
Heese, J., *see* Gross **A501**(1989)367
Heide, N., H. Rebel, V. Corcalciuc, H.J. Gils, H. Jelitto, J. Kiener, J. Wentz, S. Zagromski, D.K. Srivastava, Elastic break-up of 156 MeV ^{6}Li projectiles with large asymptotic relative momenta of the fragments: Experimental observations and the diffractive disintegration approach **A504**(1989)374
Heide, N., *see* Srivastava **A506**(1990)346
Heil, R.D., *see* Weber **A502**(1989)279c

Heil, R.D., B. Kasten, W. Scharfe, P.A. Butler, H. Friedrichs, S.D. Hoblit, U. Kneissl, S. Lindenstruth, M. Ludwig, G. Müller, H.H. Pitz, K.W. Rose, M. Schumacher, U. Seemann, J. Simpson, P. von Brentano, Th. Weber, C. Wesselborg, A. Zilges, Parity assignments in nuclear resonance fluorescence experiments using Compton polarimeters **A506**(1990)223
Heil, R.D., *see* Zilges **A507**(1990)399
Heil, R.D., *see* Pitz **A509**(1990)587
Heil, R.D., *see* Weber **A510**(1990) 1
Henderson, R.A., *see* Browne **A501**(1989)477
Henley, E.M., *see* Alberg **A508**(1990)323c
Henneberg, J.M., *see* Schelhaas **A506**(1990)307
Hering, W., *see* Glaesner **A509**(1990)331
Herman, M., *see* Bruno **A501**(1989)462
Herrmann, G., Discovery and confirmation of fission **A502**(1989)141c
Herrmann, G., Technetium or masurium – a comment on the history of element 43 **A505**(1989)352
Hertenberger, R., *see* Eckle **A506**(1990)159
Hertzog, D., *see* Barnes **A508**(1990)311c
Hess, R., *see* Schiavon **A505**(1989)595
Hess, R., *see* Binz **A508**(1990)267c
Hessberger, F.P., *see* Gäggeler **A502**(1989)561c
Hesselink, W.H.A., *see* Stolk **A505**(1989)241
Heyde, K., *see* Ryckebusch **A503**(1989)694
Heyde, K., *see* Ryckebusch **A505**(1989)755
Heyde, K., A shell-model description of intruder states and shape coexistence **A507**(1990)149c
Hicks, K., *see* Chen **A505**(1989)670
Hicks, K., *see* Chan **A510**(1990)713
Hilscher, D., *see* Hinde **A502**(1989)497c
Hilscher, D., *see* Schwinn **A502**(1989)551c
Hinde, D.J., D. Hilscher, H. Rossner, Fission timescales of excited nuclei **A502**(1989)497c
Hinfurtner, B., E. Hagn, E. Zech, Direct measurement of the ground-state spin of 2.9 y ^{102}Rh **A504**(1989)467
Hinfurtner, B., E. Hagn, E. Zech, Nuclear magnetic resonance on oriented ^{103}Ru in Fe **A509**(1990)541
Hino, M., *see* Takahara **A504**(1989)167
Hippchen, T., *see* Haidenbauer **A508**(1990)329c
Hirata, S., *see* Ieiri **A504**(1989)477
Hirenzaki, S., *see* Toki **A501**(1989)653
Ho, T., *see* Ching **A510**(1990)630
Hoang, H.M., *see* Marcinkowski **A510**(1990) 93
Hoblit, S.D., *see* Heil **A506**(1990)223
Hoblit, S.D., *see* Pitz **A509**(1990)587
Hodgson, P.E., *see* Marcinkowski **A501**(1989) 1
Hoffart, A., *see* Weber **A501**(1989)765
Hoffman, D.C., *see* Browne **A501**(1989)477
Hoffman, D.C., Spontaneous fission properties and lifetime systematics **A502**(1989) 21c
Hofmann, A., *see* Barnes **A508**(1990)311c
Hofmann, H., *see* Samhammer **A503**(1989)404
Hofmann, H.M., *see* Bruno **A501**(1989)462
Hofmann, S., *see* Gäggeler **A502**(1989)561c
Höhler, G., Low energy πN interaction **A508**(1990)525c
Holinde, K., *see* Büttgen **A506**(1990)586
Holinde, K., *see* Haidenbauer **A508**(1990)329c
Hollas, C., *see* Vartsky **A505**(1989)328
Holt, R.J., *see* Freedman **A508**(1990)455c
Holzmann, R., *see* Ahmad **A505**(1989)257
Hoodbhoy, P., Polarized photoproduction from nuclear targets with arbitrary spin and relation to deep inelastic scattering **A507**(1990)698
Horen, D.J., *see* Chen **A505**(1989)670
Horowitz, C.J., *see* Lim **A501**(1989)729
Hosaka, A., H. Toki, W. Weise, Chiral bag with vector mesons **A506**(1990)501
Hoshino, T., H. Sagawa, A. Arima, Shell-model study of light neutron-rich nuclei **A506**(1990)271
Hosoda, T., *see* Moon **A510**(1990)173
Howard, A.J., *see* Champagne **A505**(1989)384
Howard, A.J., *see* Magnus **A506**(1990)332
Howard, B., *see* Ahmad **A508**(1990)317c
Howard, R., *see* Ahmad **A508**(1990)317c
Hoyler, F., *see* Schmidt **A504**(1989) 1
Hübel, H., *see* Maj **A509**(1990)413
Huber, G., *see* Dinger **A503**(1989)331
Huizenga, J.R., *see* Schröder **A502**(1989)473c
Hummel, K.-D., *see* Guhr **A501**(1989) 95
Hungerford, P., *see* Schmidt **A504**(1989) 1
Hutcheon, D.A., R. Abegg, J. Collot, G. Gaillard, L.G. Greeniaus, P.W. Green, G.A. Moss, W.C. Olsen, D.M. Sheppard, G.R. Smith, Ye Yanlin, L.E. Antonuk, Spin transfer, K_{ss}, in the pp$\rightarrow$dπ^+ reaction **A503**(1989)649
Hutcheon, D.A., *see* Chan **A510**(1990)713
Huyse, M., *see* Ahmad **A505**(1989)257
Hyuga, H., *see* Aoki **A505**(1989)525
Iachello, F., *see* Alhassid **A501**(1989)585
Iachello, F., The shell model and the interacting boson model **A507**(1990) 43c
Ichihara, T., *see* Ieiri **A504**(1989)477
Ichikawa, S., *see* Nagame **A510**(1990)518
Ideno, K., *see* Nagame **A510**(1990)518
Ieiri, M., H. Sakaguchi, M. Nakamura, M. Yosoi, T. Ichihara, Y. Takeuchi, H. Togawa, T. Tsutsumi, S. Hirata, T. Nakano, S. Kobayashi, H. Sakamoto, T. Noro, Polarization transfer measurements for the

($\vec{d}, \vec{p}X$) reaction at $E_d = 65$ MeV and the reaction mechanism for the protons in the continuum **A504**(1989)477
Ieki, K., *see* Yasue **A509**(1990)141
Ieki, K., *see* Yasue **A510**(1990)285
Igarashi, M., *see* Yasue **A509**(1990)141
Igarashi, M., *see* Yasue **A510**(1990)285
Iimura, J., *see* Yasue **A509**(1990)141
Iimura, J., *see* Yasue **A510**(1990)285
Ikeda, N., *see* Miyatake **A501**(1989)557
Ikezoe, H., *see* Nagame **A510**(1990)518
Iljinov, A.S., *see* Botvina **A507**(1990)649
Ingold, G., *see* Schwinn **A502**(1989)551c
Ingold, G., *see* Jiang **A503**(1989)560
Inoue, M., *see* Nakayama **A507**(1990)515
Iqbal, M.J., *see* Chen **A505**(1989)670
Isgur, N., *see* Maltman **A508**(1990)371c
Islam, M.S., R.N. Boyd, P.B. Corn, D.P. Rath, X. Gu, G.W. Kolnicki, The $^{63}Cu(\alpha, p)^{66}Zn$ cross section and the corresponding thermonuclear reaction rate **A504**(1989)367
Itahashi, T., *see* Nakayama **A507**(1990)515
Itkis, M.G., V.N. Okolovich, G.N. Smirenkin, Symmetric and asymmetric fission of nuclei lighter than radium **A502**(1989)243c
Ivanov, V.S., *see* Alkhazov **A504**(1989)549
Ivascu, M., *see* Poenaru **A502**(1989) 59c
Iwase, M., *see* Yasue **A509**(1990)141
Iwase, M., *see* Yasue **A510**(1990)285
Iżycki, M., *see* Weber **A501**(1989)765
Jääskeläinen, M., *see* Juutinen **A504**(1989)205
Jacak, B.V., *see* Wilhelmy **A502**(1989)601c
Jackson, A., *see* Castillejo **A501**(1989)801
Jackson, A.D., *see* Castillejo **A501**(1989)801
Jackson, A.D., *see* Forkel **A504**(1989)818
Jackson, A.D., *see* Forkel **A509**(1990)673
Jackson, H.E., *see* Freedman **A508**(1990)455c
Jacobs, W.W., *see* Knutson **A508**(1990)185c
Jacquet, D., *see* Jiang **A503**(1989)560
Jaffe, R., Is there a hadronic shell model? **A507**(1990)200c
Jahnke, U., *see* Schwinn **A502**(1989)551c
Jahnke, U., *see* Jiang **A503**(1989)560
Jakobsson, B., G. Jönsson, L. Karlsson, V. Kopljar, B. Norén, K. Söderström, F. Schussler, E. Monnand, H. Nifenecker, G. Fai, J.P. Bondorf, K. Sneppen, On the observation of a transition from fusion to multifragmentation in high multiplicity ^{16}O induced reactions **A509**(1990)195
Jakobsson, B., *see* Westenius **A509**(1990)630
Jaminon, M., G. Ripka, P. Stassart, Chiral mesons in dense nuclear matter **A504**(1989)733
Jammari, M.K., R. Piepenbring, The influence of hexadecapole forces on γ-vibrations in ^{168}Er **A510**(1990)339
Janouch, F.A., *see* Dodig-Crnković **A501**(1989)533
Jans, E., Recent results from (e, e'X) reactions on ^4He **A508**(1990)433c
Jänsch, H.J., *see* Rusek **A503**(1989)223
Janssen, D., P. Schuck, Quantum fluctuations within a symmetry conserving generalization of mean field theory for finite Fermi systems **A501**(1989)270
Janssens, R.V.F., *see* Ahmad **A505**(1989)257
Jeanjean, J., *see* Ahmad **A508**(1990)317c
Jeanperrin, C., L.H. Rosier, B. Ramstein, E.I. Obiajunwa, Spectroscopy of ^{32}Cl nucleus via the $^{32}S(^3He, t)^{32}Cl$ reaction at 34.5 MeV **A503**(1989) 77
Jelitto, H., *see* Heide **A504**(1989)374
Jennings, B.K., O.V. Maxwell, S-wave π-nucleon scattering in the Skyrme model **A501**(1989)621
Jennings, B.K., O.V. Maxwell, Can the Skyrme model describe low-energy s-wave π-nucleon scattering? **A506**(1990)532
Jensen, A.S., *see* Jørgensen **A506**(1990)615
Jeong, S.C., *see* Moon **A510**(1990)173
Ji, X., *see* Pittel **A507**(1990)239c
Jiang, D.X., H. Doubre, J. Galin, D. Guerreau, E. Piasecki, J. Pouthas, A. Sokolov, B. Cramer, G. Ingold, U. Jahnke, E. Schwinn, J.L. Charvet, J. Frehaut, B. Lott, C. Magnago, M. Morjean, Y. Patin, Y. Pranal, J.L. Uzereau, B. Gatty, D. Jacquet, Saturation of the thermal energy deposited in Au and Th nuclei by Ar projectiles between 27 and 77 MeV/u **A503**(1989)560
Jin, X.-M., Y.-Z. Zhuo, X.-Z. Zhang, M. Sano, Relativistic Vlasov equation and heavy-ion collisions **A506**(1990)655
Johansson, T., *see* Barnes **A508**(1990)311c
Johnson, A., *see* Wyss **A503**(1989)244
Johnson, A., *see* Nazarewicz **A503**(1989)285
Johnson, A., *see* Wyss **A505**(1989)337
Johnson, A., *see* Schwengner **A509**(1990)550
Johnson, R.C., E.J. Stephenson, J.A. Tostevin, Nature of the amplitudes missing from adiabatic distorted-wave models of medium energy (d, p) and (p, d) reactions **A505**(1989) 26
Johnson, R.R., *see* Rui **A508**(1990)551c
Jolie, J., *see* Van Isacker **A503**(1989)429
Jolie, J., *see* Ulbig **A505**(1989)193

Jolivette, P.L., *see* Knutson **A508**(1990)185c
Jones, P.S.J., *see* Castillejo **A501**(1989)801
Jones, W.P., *see* Todd Baker **A501**(1989)546
Jonson, B., *see* Nyman **A510**(1990)189
Jönsson, G., *see* Jakobsson **A509**(1990)195
Jørgensen, T.M., A.S. Jensen, A. Miranda, G.C. Oades, The strong-interaction fine and hyperfine structure of antiprotonic atoms **A506**(1990)615
Jost, D.T., *see* Gäggeler **A502**(1989)561c
Jourdan, J., *see* Freedman **A508**(1990)455c
Julin, R., *see* Krasznahorkay **A503**(1989)113
Julin, R., *see* Gulyás **A506**(1990)196
Juutinen, S., J. Hattula, M. Jääskeläinen, A. Virtanen, T. Lönnroth, Excited structure of the ^{56}Ni-plus-three-nucleon isobars ^{59}Ni and ^{59}Cu **A504**(1989)205
Kaczarowski, R., *see* De Voigt **A507**(1990)447
Kaczarowski, R., *see* De Voigt **A507**(1990)472
Kader, H., *see* Eckle **A501**(1989)413
Kader, H., *see* Eckle **A506**(1990)159
Kagaya, A., K. Shoda, K. Takeshita, T. Shimada, T. Kobayashi, H. Tsubota, Spin–isospin flip transitions in ^{40}Ca(γ, π^+)^{40}K reaction **A503**(1989)766
Kaiser, N., U.-G. Meissner, The nucleon–nucleon interaction from a realistic pseudoscalar–vector chiral lagrangian **A506**(1990)417
Kaiser, N., U.-G. Meissner, Theoretical aspects of nuclear parity violation **A510**(1990)759
Kajrys, G., *see* Dasmahapatra **A509**(1990)393
Kakigi, S., *see* Warner **A503**(1989)161
Kalashnikova, Yu.S., I.M. Narodetskii, V.P. Yurov, Quark model potential and the three nucleon bound state **A508**(1990)239c
Kalbermann, B., E. Friedman, A. Gal, C.J. Batty, Finite-range effects in pionic atoms **A503**(1989)632
Kälbermann, G., *see* Eisenberg **A508**(1990)395c
Kaliman, Z., *see* Pisk **A504**(1989)103
Kalinowski, Ł., *see* Szerypo **A507**(1990)357
Kalinowsky, H., *see* Ahmad **A508**(1990)317c
Kałka, H., *see* Arnold **A502**(1989)325c
Kamalov, S.S., *see* Gmitro **A507**(1990)707
Kameyama, H., *see* Kamimura **A508**(1990) 17c
Kamimura, M., H. Kameyama, Coupled rearrangement channel calculations of muonic molecules and $A = 3$ nuclei **A508**(1990) 17c
Kanada, H., T. Kaneko, Y.C. Tang, Multi-configuration resonating-group study of the five-nucleon system **A504**(1989)529
Kaneko, T., *see* Kanada **A504**(1989)529
Kaneko, T., *see* Moon **A510**(1990)173
Karataglidis, S., D. Zubanov, P.D. Harty, M.N. Thompson, The ^{7}Li(γ, n_0)^{6}Li cross section near threshold **A501**(1989)108
Karban, O., *see* Zybert **A510**(1990)441
Karlsson, L., *see* Jakobsson **A509**(1990)195
Kasagi, J., *see* Warner **A503**(1989)161
Kasten, B., *see* Heil **A506**(1990)223
Kaufman, S., *see* Wilhelmy **A502**(1989)601c
Kayser, F., *see* Ahmad **A508**(1990)317c
Kecskeméti, J., *see* Franz **A510**(1990)774
Kerr, S.A., *see* Schmidt **A504**(1989) 1
Khadkikar, S.B., *see* Straub **A508**(1990)385c
Khankhasayev, M.Kh., Unitary scattering theory of low-energy pions by light nuclei **A505**(1989)717
Khanna, F.C., *see* Dymarz **A507**(1990)531
Khanna, F.C., *see* Dymarz **A507**(1990)560
Kibédi, T., *see* Krasznahorkay **A503**(1989)113
Kibédi, T., *see* Dracoulis **A509**(1990)605
Kibédi, T., *see* Dracoulis **A510**(1990)533
Kielan, D., *see* Marcinkowski **A510**(1990) 93
Kiener, J., *see* Heide **A504**(1989)374
Kiesewetter, J., *see* Baumann **A502**(1989)271c
Kievsky, A., S. Rosati, M. Viviani, Euler and correlated harmonic-oscillator wave functions for three-nucleon systems **A501**(1989)503
Kihm, Th., *see* Weber **A502**(1989)279c
Kihm, Th., *see* Weber **A510**(1990) 1
Kilcher, P., *see* Roussière **A504**(1989)511
Kilgus, G., *see* Guhr **A501**(1989) 95
Kilian, K., *see* Barnes **A508**(1990)311c
Kim, J.C., *see* Moon **A510**(1990)173
Kim, J.H., C.H. Lee, H.K. Lee, Representation mixing of baryons in the Skyrme model **A501**(1989)835
Kim, W.Y., *see* Rollefson **A507**(1990)413
King, J., *see* Graff **A510**(1990)346
Kinney, E.R., *see* Freedman **A508**(1990)455c
Kirchner, R., *see* Dinger **A503**(1989)331
Kirchner, R., *see* Szerypo **A507**(1990)357
Kirwan, A., *see* Wyss **A503**(1989)244
Kishimoto, T., *see* Sakamoto **A501**(1989)205
Kishimoto, T., *see* Sakamoto **A501**(1989)242
Kistryn, St., *see* Smyrski **A501**(1989)319
Kitazawa, H., Y. Harima, N. Mukai, Anomaly of the alpha-particle optical potential in the ^{27}Al(n, α)^{24}Na reaction **A510**(1990)429
Klein, A., *see* Walet **A510**(1990)261
Klempt, E., *see* Reifenröther **A503**(1989)885
Klempt, E., *see* Ahmad **A508**(1990)317c
Klepper, O., *see* Dinger **A503**(1989)331
Klepper, O., *see* Szerypo **A507**(1990)357
Klink, W.H., Relativistic quantum mechanics, production reactions, and unitarized multiparticle amplitudes **A508**(1990)293c
Klomp, R.A.M., *see* Rijken **A508**(1990)173c

Kluge, H., *see* Maj **A509**(1990)413
Kluyver, J.C., *see* Schiavon **A505**(1989)595
Kneissl, U., *see* Weber **A502**(1989)279c
Kneissl, U., *see* Heil **A506**(1990)223
Kneissl, U., *see* Zilges **A507**(1990)399
Kneissl, U., *see* Pitz **A509**(1990)587
Kneissl, U., *see* Weber **A510**(1990) 1
Knitter, H.-K., *see* Weigmann **A502**(1989)177c
Knöpfle, K.T., *see* Weber **A502**(1989)279c
Knöpfle, K.T., *see* Weber **A510**(1990) 1
Knutson, L.D., S.E. Vigdor, W.W. Jacobs, J. Sowinski, P.L. Jolivette, S.W. Wissink, C. Bloch, C. Whiddon, R.C. Byrd, A test of charge symmetry in n-p scattering at $E_n = 183$ MeV **A508**(1990)185c
Kobayashi, S., *see* Ieiri **A504**(1989)477
Kobayashi, T., *see* Kagaya **A503**(1989)766
Koch, J.H., *see* Naus **A509**(1990)717
Kohyama, Y., *see* Takizawa **A507**(1990)611
Kok, L.P., *see* Schellingerhout **A508**(1990)299c
Kolnicki, G.W., *see* Islam **A504**(1989)367
Komatsubara, T., *see* Moon **A510**(1990)173
Koncz, P., *see* Franz **A510**(1990)774
Kondratyuk, L.A., *see* Blinov **A510**(1990)803
König, V., *see* Bruno **A501**(1989)462
König, V., *see* Borbély **A503**(1989)349
Konnerth, D., *see* Glaesner **A509**(1990)331
Konter, J.A., *see* Binz **A508**(1990)267c
Koori, N., *see* Warner **A503**(1989)161
Kopljar, V., *see* Jakobsson **A509**(1990)195
Korolev, Yu.V., *see* Abdullin **A506**(1990)471
Korolev, Yu.V., *see* Blinov **A510**(1990)803
Korovin, P.P., *see* Dem'yanova **A501**(1989)336
Korsch, W., *see* Rusek **A503**(1989)223
Korsheninnikov, A.A., *see* Bochkarev **A505**(1989)215
Koskinen, M., *see* Lipas **A509**(1990)509
Koslowsky, V.T., *see* Hardy **A509**(1990)429
Kosmas, T.S., J.D. Vergados, Study of the flavour violating (μ^-, e^-) conversion in nuclei **A510**(1990)641
Kossakowski, R., P. Grivot, P. Liaud, K. Schreckenbach, G. Azuelos, Neutron lifetime measurement with a helium-filled time projection chamber **A503**(1989)473
Kostov, L.K., *see* Andrejtscheff **A505**(1989)397
Kotlinski, B., D. Cline, A. Bäcklin, D. Clark, Lifetime measurements of states in ^{110}Pd **A503**(1989)575
Kouri, D.J., *see* Sun **A508**(1990) 41c
Kovács, Zs., *see* Franz **A510**(1990)774
Kovalev, E.E., *see* Dudkin **A509**(1990)783
Kowalczyk, R., *see* Freedman **A508**(1990)455c
Kox, S., *see* Westenius **A509**(1990)630
Kozack, R., D.G. Madland, Prediction of intermediate-energy neutron scattering observables from a Dirac optical potential **A509**(1990)664
Kramer, N.D., *see* Schmidt **A504**(1989) 1
Krappe, H.J., Proximity friction reexamined **A505**(1989)417
Krasznahorkay, A., Zs. Dombrádi, J. Timár, Z. Gácsi, T. Kibédi, A. Passoja, R. Julin, J. Kumpulainen, S. Brant, V. Paar, Nuclear structure of ^{110}In **A503**(1989)113
Kratz, J.V., *see* Gäggeler **A502**(1989)561c
Kretschmer, W., *see* Clajus **A508**(1990)261c
Krewald, S., *see* Drożdż **A501**(1989)487
Kristiansson, A., *see* Westenius **A509**(1990)630
Krivine, H., *see* García-Recio **A507**(1990)385
Kroll, P., W. Schweiger, Analysis of low-energy antiproton–proton forward scattering **A503**(1989)865
Krusche, B., *see* Michaelsen **A501**(1989)437
Kubodera, K., *see* Takizawa **A507**(1990)611
Kubono, S., *see* Miyatake **A501**(1989)557
Kubono, S., *see* Yasue **A510**(1990)285
Kubota, Y., *see* Sakamoto **A501**(1989)693
Kuchta, R., Microscopic boson approach to nuclear collective motion **A503**(1989)501
Kudo, H., *see* Miyatake **A501**(1989)557
Kugava, I.L., *see* Schmidt **A504**(1989) 1
Kühl, T., *see* Dinger **A503**(1989)331
Kuhnert, A., *see* Maj **A509**(1990)413
Kume, K., Excitation of stretched 2p1h states in near-threshold (p, π^-) reaction **A504**(1989)712
Kumpulainen, J., *see* Krasznahorkay **A503**(1989)113
Kumpulainen, J., *see* Gulyás **A506**(1990)196
Kunne, R.A., *see* Schiavon **A505**(1989)595
Kunugise, A., *see* Sakamoto **A501**(1989)693
Kunz, P.D., *see* Alberg **A508**(1990)323c
Kurath, D., Maria Goeppert-Mayer **A507**(1990) 1c
Kurchan, J., D.R. Bes, S. Cruz Barrios, A systematic treatment of triaxial systems at high spins **A509**(1990)306
Kurniawan, I., *see* Moon **A510**(1990)173
Kuroda, K., *see* Dalla Torre-Colautti **A505**(1989)561
Kuroda, P.K., A note on the discovery of technetium **A503**(1989)178
Kuzmichev, V.E., V.V. Peresypkin, Three-body calculation of deuteron–nucleus Coulomb field interaction **A506**(1990)245
Kuz'min, E.A., *see* Bochkarev **A505**(1989)215
Kvitsinsky, A.A., *see* Gusev **A508**(1990) 35c
Kwon, J.U., *see* Moon **A510**(1990)173
Laa, C., *see* Ahmad **A508**(1990)317c
Labarsouque, J., Conventional and less-conventional medium effects in K^+ scattering from nuclei at intermediate energy **A506**(1990)539
Lahlou, F., *see* Dasmahapatra **A509**(1990)393
Lallena, A.M., *see* Co' **A510**(1990)139

Lamm, L.O., C.P. Browne, J. Görres, S.M. Graff, M. Wiescher, A.A. Rollefson, B.A. Brown, The level structure of ^{20}Na and the impact upon the stellar reaction rate for ^{19}Ne(p, γ)^{20}Na **A510**(1990)503
Lamot, G.H., *see* Bahaoui **A508**(1990)335c
Lanceri, L., *see* Dalla Torre-Colautti **A505**(1989)561
Landua, R., *see* Ahmad **A508**(1990)317c
Lang, J., *see* Smyrski **A501**(1989)319
Lanier, R.G., *see* Wilhelmy **A502**(1989)601c
Laptev, A.B., *see* Petrov **A502**(1989)297c
Larimer, R.-M., *see* Browne **A501**(1989)477
Larson, N.M., *see* Moore **A502**(1989)443c
Larsson, P.O., *see* Nyman **A510**(1990)189
Laspalles, C., *see* Bastid **A506**(1990)637
Lassen, L., *see* Rösch **A509**(1990)615
Lauritsch, G., P.-G. Reinhard, Giant double resonances in nuclei **A509**(1990)287
Leal, L.C., *see* Moore **A502**(1989)443c
Lechanoine-Leluc, C., *see* Schiavon **A505**(1989)595
Lechanoine-Leluc, C., *see* Binz **A508**(1990)267c
Lee, C.H., *see* Kim **A501**(1989)835
Lee, H.K., *see* Kim **A501**(1989)835
Lee, L., *see* Chan **A510**(1990)713
Lee, T.-S.H., *see* Nozawa **A508**(1990)355c
Lee, Y.J., C. Nuppenau, A.D. MacKellar, A constraint for saturation binding energy in nuclear matter **A504**(1989)447
Lee, Y.J., *see* Nuppenau **A504**(1989)839
Leeb, H., H. Fiedeldey, S.A. Sofianos, R. Lipperheide, M. Fabre de la Ripelle, Nonrelativistic quark–antiquark potential for mesons **A508**(1990)365c
Lehar, F., *see* Dalla Torre-Colautti **A505**(1989)561
Lehar, F., *see* Binz **A508**(1990)267c
Lehmann, M., *see* Schwinn **A502**(1989)551c
Leidemann, W., G. Orlandini, A model study of np tensor correlation effects on the electron scattering response functions **A506**(1990)447
Leigh, J.R., *see* Lestone **A509**(1990)178
Leino, M.E., *see* Gäggeler **A502**(1989)561c
Lemaire, M.C., *see* Bastid **A506**(1990)637
Le Merdy, A., *see* Bastid **A506**(1990)637
Lenske, H., *see* Eckle **A506**(1990)159
Lenske, H., *see* Nakayama **A507**(1990)515
Lépine-Szily, A., *see* Villari **A501**(1989)605
Leroux, B., *see* Boucheneb **A502**(1989)261c
Lesko, K.T., *see* Browne **A501**(1989)477
Lestone, J.P., J.R. Leigh, J.O. Newton, J.X. Wei, Fission fragment angular distributions following transfer reactions for ^{232}Th + ^{16}O **A509**(1990)178
Letokhov, V.S., *see* Alkhazov **A504**(1989)549
Leucker, H., *see* Rusek **A503**(1989)223
Levine, M.J., *see* Wilhelmy **A502**(1989)601c
Leyba, J., *see* Wilhelmy **A502**(1989)601c
L'Hôte, D., *see* Bastid **A506**(1990)637
Li, G.-L., Z.-J. Cao, C.-S. Zhong, Nuclear shadowing and nuclear momentum conservation in the EMC effect **A509**(1990)757
Li, G.-Q., G.-O. Xu, Finite temperature self-consistent semiclassical approach to the temperature dependence of properties of hot nuclei **A510**(1990)557
Liatard, F., *see* Azaiez **A501**(1989)401
Liaud, P., *see* Kossakowski **A503**(1989)473
Lichtenthäler Filho, R., *see* Villari **A501**(1989)605
Lidén, F., *see* Wyss **A503**(1989)244
Lieb, K.P., *see* Cristancho **A501**(1989)118
Lieb, K.P., *see* Gross **A501**(1989)367
Lieb, K.P., *see* Michaelsen **A501**(1989)437
Lieb, K.P., *see* Ulbig **A505**(1989)193
Lieberz, W., *see* Zipper **A504**(1989) 36
Lieberz, W., *see* Wyss **A505**(1989)337
Liechti, J., *see* Smyrski **A501**(1989)319
Lilley, J.S., *see* Thompson **A505**(1989) 84
Lim, K., C.J. Horowitz, Collective modes in a relativistic meson–nucleon system **A501**(1989)729
Lin, R., *see* Strate **A501**(1989) 51
Lindenstruth, S., *see* Heil **A506**(1990)223
Lindenstruth, S., *see* Zilges **A507**(1990)399
Lindenstruth, S., *see* Pitz **A509**(1990)587
Lindholm, A., *see* Borghols **A504**(1989)231
Linssen, L., *see* Schiavon **A505**(1989)595
Liotta, R.J., *see* Dodig-Crnković **A501**(1989)533
Lipas, P.O., M. Koskinen, H. Harter, R. Nojarov, A. Faessler, Microscopic IBA calculations of (e, e′) M1 form factors **A509**(1990)509
Lipkin, H.J., The shell model approach – key to hadron structure? **A507**(1990)205c
Lipperheide, R., *see* Leeb **A508**(1990)365c
Lippert, T., *see* Thiel **A504**(1989)864
Lisantti, J., *see* Chen **A505**(1989)670
Lister, C.J., *see* Gross **A501**(1989)367
Lister, C.J., *see* Chishti **A501**(1989)568
Liu, G.Q., *see* Green **A509**(1990)687
Logan, B.A., *see* Pisk **A504**(1989)103
Lönnroth, T., *see* Juutinen **A504**(1989)205
López, J.A., J. Randrup, Theory of nuclear multifragmentation (I). Transition-state treatment of the breakup process **A503**(1989)183
Lott, B., *see* Jiang **A503**(1989)560
Lourie, R.W., Recoil polarization observables in coincident pion electroproduction **A509**(1990)653
Love, D.J.G., *see* Chishti **A501**(1989)568
Love, D.J.G., *see* Wyss **A503**(1989)244

Løvhøiden, G., *see* Westenius **A509**(1990)630
Lübeck, G., *see* Straub **A508**(1990)385c
Lucas, B., *see* Bastid **A506**(1990)637
Luck, W., *see* Rusek **A503**(1989)223
Ludwig, M., *see* Heil **A506**(1990)223
Lukasiak, A., *see* Berdichevsky **A502**(1989)395c
Lund, E., *see* Tengblad **A503**(1989)136
Lüscher, H., *see* Smyrski **A501**(1989)319
Lysaght, P.S., *see* Wilhelmy **A502**(1989)601c
Mach, H., *see* Wohn **A507**(1990)141c
MacKellar, A.D., *see* Lee **A504**(1989)447
MacKellar, A.D., *see* Nuppenau **A504**(1989)839
Madland, D.G., *see* Kozack **A509**(1990)664
Magara, M., *see* Nagame **A510**(1990)518
Magnago, C., *see* Jiang **A503**(1989)560
Magnus, P.V., *see* Champagne **A505**(1989)384
Magnus, P.V., M.S. Smith, A.J. Howard, P.D. Parker, A.E. Champagne, Measurement of $^{15}O(\alpha, \gamma)^{19}Ne$ resonance strengths **A506**(1990)332
Mahaux, C., R. Sartor, Variational moment approach to the single-particle properties of protons in ^{208}Pb **A503**(1989)525
Mahaux, C., R. Sartor, The nuclear mean field from scattering to deeply bound single-particle states **A507**(1990)155c
Maher, C.J., *see* Barnes **A508**(1990)311c
Maier, H.J., *see* Eckle **A501**(1989)413
Maier, H.J., *see* Eckle **A506**(1990)159
Maier, K.H., *see* Maj **A509**(1990)413
Maier, Th., *see* Smyrski **A501**(1989)319
Maino, G., *see* De Leo **A504**(1989)109
Maj, A., H. Grawe, H. Kluge, A. Kuhnert, K.H. Maier, J. Recht, N. Roy, H. Hübel, M. Guttormsen, Levels, lifetimes and g-factors in ^{198}Po and ^{200}Po **A509**(1990)413
Makarenko, V.E., Yu.D. Molchanov, G.A. Otroshenko, G.B. Yankov, Ternary fission of neutron induced uranium fissioning isomers **A502**(1989)363c
Malik, F.B., *see* Bredbacka **A504**(1989) 49
Malik, F.B., *see* Manngård **A504**(1989)130
Maltman, K., $SU(3)_F$ breaking in the 10^*_F and 8_F dibaryon multiplets **A501**(1989)843
Maltman, K., N. Isgur, J. Weinstein, T. Barnes, Final state interactions and the $\Delta I = \frac{1}{2}$ rule in $K \to 2\pi$ **A508**(1990)371c
Mamane, G., *see* Wilhelmy **A502**(1989)601c
Mandelzweig, V.B., *see* Wallace **A503**(1989)673
Mandelzweig, V.B., Hyperspherical approach to few body problems: A summary and new developments **A508**(1990) 63c
Mando, P.A., *see* Ulbig **A505**(1989)193
Mango, S., *see* Binz **A508**(1990)267c
Manngård, P., M. Brenner, M.M. Alam, I. Reichstein, F.B. Malik, Molecular potential and elastic scattering of alpha particles by ^{28}Si from 14 to 28 MeV **A504**(1989)130
Manohar, S.B., A. Ramaswami, B.K. Srivastava, A.V.R. Reddy, A.G.C. Nair, G.K. Gubbi, A. Srivastava, S. Prakash, Nuclear charge distribution in the spontaneous fission of ^{252}Cf **A502**(1989)307c
Marchand, C., *see* Freedman **A508**(1990)455c
Marcinkowski, A., R.W. Finlay, J. Rapaport, P.E. Hodgson, M.B. Chadwick, Neutron emission cross sections on ^{184}W at 11.5 and 26 MeV and the neutron-nucleus scattering mechanism **A501**(1989) 1
Marcinkowski, A., U. Garuska, H.M. Hoang, D. Kielan, B. Zwięgliński, Cross sections of the (n, p) reaction on zirconium isotopes **A510**(1990) 93
Markushin, V., *see* Bogdanova **A508**(1990) 29c
Markushin, V.E., *see* Gusev **A508**(1990) 35c
Marroncle, J., *see* Bastid **A506**(1990)637
Marshall, G.M., *see* Ahmad **A508**(1990)317c
Märten, H., *see* Arnold **A502**(1989)325c
Martin, A., *see* Dalla Torre-Colautti **A505**(1989)561
Martin, A., *see* Schiavon **A505**(1989)595
Martino, J., *see* Platchkov **A508**(1990)343c
Martino, J., *see* Platchkov **A510**(1990)740
Maruyama, M., *see* Gutsche **A503**(1989)737
Maruyama, T., *see* Soutome **A507**(1990)731
Marx, D., *see* Dinger **A503**(1989)331
Masaike, A., *see* Masuda **A504**(1989)269
Massoletti, D.J., *see* Wilhelmy **A502**(1989)601c
Masuda, Y., T. Adachi, A. Masaike, K. Morimoto, Longitudinal asymmetry in a neutron radiative capture reaction of ^{139}La **A504**(1989)269
Mathelitsch, L., *see* Pauschenwein **A508**(1990)253c
Matsuoka, N., *see* Warner **A503**(1989)161
Matsuzaki, M., Signature inversion in quasiparticle energy and $B(M1)$ **A504**(1989)456
Matsuzaki, M., Gamma vibration and wobbling motion in ^{182}Os **A509**(1990)269
Mattsson, S., *see* Nyman **A510**(1990)189
Maurel, M., *see* Westenius **A509**(1990)630
Maxwell, O.V., *see* Jennings **A501**(1989)621
Maxwell, O.V., *see* Jennings **A506**(1990)532
May, B., *see* Ahmad **A508**(1990)317c
McAbee, T.L., W.J. Thompson, H. Ohnishi, Spin-spin interactions in nucleon-nucleus scattering **A509**(1990) 39
McDaniels, D.K., *see* Chen **A505**(1989)670
McGovern, J.A., M.C. Birse, Strange baryons in a chiral

quark-meson model (I). SU(3)-symmetric model **A506**(1990)367
McGovern, J.A., M.C. Birse, Strange baryons in a chiral quark-meson model (II). Broken SU(3) **A506**(1990)392
McKeown, R.D., *see* Freedman **A508**(1990)455c
McNeill, J.H., *see* Gross **A501**(1989)367
McNeill, J.H., *see* Chishti **A501**(1989)568
Mecking, B.A., New physics possibilities at electron accelerators **A508**(1990)567c
Meier, J.H., *see* Borghols **A504**(1989)231
Meissner, U.-G., Boson exchange phenomenology: A first step from nucleon to nuclei **A503**(1989)801
Meissner, U.-G., *see* Kaiser **A506**(1990)417
Meissner, U.-G., *see* Bernard **A508**(1990)361c
Meissner, U.-G., *see* Kaiser **A510**(1990)759
Menges, R., *see* Dinger **A503**(1989)331
Merchez, F., *see* Westenius **A509**(1990)630
Merz, F., *see* Eckle **A501**(1989)413
Merz, F., *see* Eckle **A506**(1990)159
Meyer, H.O., Few-body physics possibilities with light ion storage rings **A508**(1990)575c
Meyer, J., *see* Bonche **A510**(1990)466
Meyerhofer, M., *see* Barnes **A508**(1990)311c
Meziani, Z.-E., *see* Freedman **A508**(1990)455c
Michaelsen, S., Ch. Winter, K.P. Lieb, B. Krusche, S. Robinson, T. von Egidy, High-resolution spectroscopy of ^{32}P (II). Level density and primary transition strengths observed after thermal neutron capture in ^{31}P **A501**(1989)437
Michalowicz, A., *see* Dalla Torre-Colautti **A505**(1989)561
Micheletti, S., *see* De Leo **A504**(1989)109
Miller, C.A., *see* Chan **A510**(1990)713
Miller, G.A., New directions in theory - the panel **A508**(1990)561c
Miller, H.G., *see* Davidson **A505**(1989)300
Milner, R., *see* Freedman **A508**(1990)455c
Milner, R.G., New physics with polarized ^{3}He targets **A508**(1990)599c
Min, D.P., *see* Scoccola **A505**(1989)497
Minehart, R., *see* Freedman **A508**(1990)455c
Miranda, A., *see* Jørgensen **A506**(1990)615
Mishin, V.I., *see* Alkhazov **A504**(1989)549
Mishustin, I.N., *see* Botvina **A507**(1990)649
Mitra, A.N., *see* Bhatnagar **A508**(1990)287c
Mittig, W., *see* Suomijärvi **A509**(1990)369
Miyatake, H., T. Nomura, S. Kubono, J. Tanaka, M. Oyaizu, H. Okawa, N. Ikeda, K. Sueki, H. Kudo, K. Morita, T. Shinozuka, Alpha decays of ^{221}Pa and ^{218,219}Ac **A501**(1989)557
Mizutani, T., *see* Bahaoui **A508**(1990)335c
Moktah, R., *see* Zybert **A510**(1990)441
Molchanov, Yu.D., *see* Makarenko **A502**(1989)363c
Monnand, E., *see* Jakobsson **A509**(1990)195
Montarou, G., *see* Bastid **A506**(1990)637
Moon, C.B., J.C. Kim, J.U. Kwon, B.N. Sung, K. Furono, T. Komatsubara, T. Hosoda, T. Kaneko, S.C. Jeong, I. Kurniawan, T. Aoki, The band structure and triaxial shape in ^{118}Xe **A510**(1990)173
Moore, M.S., L.C. Leal, D. De Saussure, R.B. Perez, N.M. Larson, Resonance in the fission of (^{235}U+n) **A502**(1989)443c
Moretto, L.G., G.F. Peaslee, G.J. Wozniak, Angular-momentum-bearing modes in fission **A502**(1989)453c
Morgado, R.E., *see* Vartsky **A505**(1989)328
Morimatsu, O., The Born-Oppenheimer approach to the heavy $q^2\bar{q}^2$ system **A505**(1989)655
Morimoto, K., *see* Masuda **A504**(1989)269
Morita, K., *see* Miyatake **A501**(1989)557
Morjean, M., *see* Jiang **A503**(1989)560
Morningstar, C.J., *see* Dymarz **A507**(1990)531
Morrison, G.C., *see* Zybert **A510**(1990)441
Mosel, U., *see* Reitz **A501**(1989)877
Mosel, U., *see* Niita **A504**(1989)391
Moss, C., *see* Vartsky **A505**(1989)328
Moss, G.A., *see* Hutcheon **A503**(1989)649
Moszyński, M., *see* Wohn **A507**(1990)141c
Mottelson, B., *see* Hamamoto **A507**(1990) 65c
Moya de Guerra, E., *see* Caballero **A509**(1990)117
Moya de Guerra, E., *see* García-Recio **A509**(1990)221
Mukai, N., *see* Kitazawa **A510**(1990)429
Mukha, I.G., *see* Bochkarev **A505**(1989)215
Mulders, P.J., *see* Spit **A510**(1990)609
Müller, A., *see* Brosa **A502**(1989)423c
Müller, G., *see* Heil **A506**(1990)223
Müller, R., *see* Smyrski **A501**(1989)319
Müller-Groeling, A., *see* Büttgen **A506**(1990)586
Münzenberg, G., *see* Gäggeler **A502**(1989)561c
Münzenberg, G., Heavy element production and limits to fusion **A502**(1989)571c
Müther, H., *see* Brown **A506**(1990)565
Müther, H., *see* Bonatsos **A510**(1990) 55
Muto, K., *see* Takahara **A504**(1989)167
Mutterer, M., *see* Theobald **A502**(1989)343c
Myhrer, F., An analysis of antiproton-proton reactions **A508**(1990)513c
Nadeau, H., *see* Scoccola **A505**(1989)497
Nagame, Y., H. Ikezoe, S. Baba, K. Hata, T. Sekine, S. Ichikawa, M. Magara, K. Ideno, A. Yokoyama, Y. Hatsukawa, T. Ohtsuki, Statistical emission of complex fragments produced in the reaction ^{37}Cl+^{68}Zn **A510**(1990)518
Nagarajan, M.A., *see* Thompson **A505**(1989) 84

Nägele, N., *see* Barnes **A508**(1990)311c
Nair, A.G.C., *see* Manohar **A502**(1989)307c
Nakagawa, T., *see* Yasue **A509**(1990)141
Nakagawa, T., *see* Yasue **A510**(1990)285
Nakamura, M., *see* Ieiri **A504**(1989)477
Nakano, T., *see* Ieiri **A504**(1989)477
Nakayama, S., T. Yamagata, K. Yuasa, M. Tanaka, H.G. Bohlen, H. Lenske, H.H. Wolter, M. Inoue, T. Itahashi, H. Ogata, Excitation of isovector states by the (^{7}Li, ^{7}Be) reaction on ^{12}C and ^{13}C **A507**(1990)515
Namboodiri, M.N., *see* Wilhelmy **A502**(1989)601c
Nann, H., *see* Eckle **A506**(1990)159
Napolitano, J., *see* Freedman **A508**(1990)455c
Narodetskii, I.M., *see* Kalashnikova **A508**(1990)239c
Nathan, A.M., *see* Pitz **A509**(1990)587
Naus, H.W.L., S.J. Pollock, J.H. Koch, U. Oelfke, Electron scattering from a bound nucleon **A509**(1990)717
Navarro, J., M. Barranco, The dipole isovector M_3 sum rule in the random phase approximation **A505**(1989)173
Navarro, J., *see* García-Recio **A507**(1990)385
Navarro, J., *see* Chiang **A510**(1990)573
Navrátil, P., J. Dobeš, Microscopic seniority-boson quadrupole operator from the similarity transformed Dyson boson operator **A507**(1990)340
Nazarewicz, W., *see* Gross **A501**(1989)367
Nazarewicz, W., R. Wyss, A. Johnson, Structure of superdeformed bands in the $A \approx 150$ mass region **A503**(1989)285
Nazarewicz, W., *see* Wyss **A505**(1989)337
Nazarewicz, W., *see* Schwengner **A509**(1990)550
Nefedov, N.A., *see* Dudkin **A509**(1990)783
Negele, J.W., Microscopic theory of fission dynamics **A502**(1989)371c
Nelson, A.H., *see* Wyss **A503**(1989)244
Nelson, J., *see* Freedman **A508**(1990)455c
Neuhausen, R., *see* Tiator **A501**(1989)751
Newton, J.O., *see* Lestone **A509**(1990)178
Nguyen, H., *see* Ahmad **A508**(1990)317c
Nguyen Dinh Dang, Damping of isovector diant dipole resonances in hot even-even spherical nuclei **A504**(1989)143
Nguyen Van Giai, *see* García-Recio **A507**(1990)385
Nielsen, O.-B., *see* Westenius **A509**(1990)630
Nieves, J., *see* Chiang **A510**(1990)573
Nifenecker, H., *see* Jakobsson **A509**(1990)195
Niita, K., W. Cassing, U. Mosel, Hard-photon production within a self-consistent transport approach to heavy-ion collisions **A504**(1989)391
Niizeki, T., *see* Yasue **A509**(1990)141
Niizeki, T., *see* Yasue **A510**(1990)285
Nilsson, L., *see* Borghols **A504**(1989)231
Ninov, V., *see* Gäggeler **A502**(1989)561c
Nisimura, K., *see* Yasue **A509**(1990)141
Nisimura, K., *see* Yasue **A510**(1990)285
Nix, J.R., Summary: Our 50-year odyssay with fission **A502**(1989)609c
Nojarov, R., *see* Lipas **A509**(1990)509
Nomura, T., *see* Miyatake **A501**(1989)557
Noorman, R.F., *see* De Voigt **A507**(1990)447
Noorman, R.F., *see* De Voigt **A507**(1990)472
Norén, B., *see* Jakobsson **A509**(1990)195
Nörenberg, W., *see* Berdichevsky **A502**(1989)395c
Nörenberg, W., *see* Schönhofen **A504**(1989)875
Norman, E.B., *see* Browne **A501**(1989)477
Noro, T., *see* Ieiri **A504**(1989)477
Nozawa, S., T.-S.H. Lee, B. Blankleider, Neutral pion photoproduction on the nucleon near threshold **A508**(1990)355c
Nuppenau, C., *see* Lee **A504**(1989)447
Nuppenau, C., Y.J. Lee, A.D. MacKellar, Ambiguities in the Dirac–Brueckner approach **A504**(1989)839
Nyberg, J., *see* Wyss **A503**(1989)244
Nyberg, J., *see* Wyss **A505**(1989)337
Nyga, K.R., H. Paetz Gen. Schieck, Highly accurate spreading width $\Gamma^{\downarrow}$ of isobaric analog states in ^{139}La from ^{138}Ba($\vec{p}$, p′) using a two-level S-matrix resonance parametrization **A501**(1989)513
Nyman, G., *see* Tengblad **A503**(1989)136
Nyman, G., R.E. Azuma, P.G. Hansen, B. Jonson, P.O. Larsson, S. Mattsson, A. Richter, K. Riisager, O. Tengblad, K. Wilhelmsen, The beta decay of ^{9}Li to levels in ^{9}Be: A new look **A510**(1990)189
Oades, G.C., *see* Jørgensen **A506**(1990)615
Obiajunwa, E.I., *see* Jeanperrin **A503**(1989) 77
Obrant, G.Z., Inelastic π^{3}He-scattering in πNN-dynamics **A503**(1989)849
Obuti, M.M., *see* Villari **A501**(1989)605
Oda, T., *see* Takahara **A504**(1989)167
Oed, A., *see* Boucheneb **A502**(1989)261c
Oelert, W., *see* Barnes **A508**(1990)311c
Oelfke, U., *see* Naus **A509**(1990)717
Ogata, H., *see* Nakayama **A507**(1990)515
Ogawa, K., *see* Yasue **A509**(1990)141
Ogloblin, A.A., *see* Dem'yanova **A501**(1989)336
Ohlsson, S., *see* Barnes **A508**(1990)311c
Ohnishi, H., *see* McAbee **A509**(1990) 39
Ohnuma, H., *see* Yasue **A509**(1990)141
Ohnuma, H., *see* Yasue **A510**(1990)285
Ohsawa, T., *see* Warner **A503**(1989)161
Ohtsuki, T., *see* Nagame **A510**(1990)518
Okawa, H., *see* Miyatake **A501**(1989)557
Okolovich, V.N., *see* Itkis **A502**(1989)243c
Okołowicz, J., M. Ploszajczak, S. Drożdż, E. Caurier, Giant dipole

resonances in hot nuclear matter in the model of self-relaxing mean field **A501**(1989)289
Okołowicz, J., *see* Caurier **A506**(1990)262
Okołowicz, J., M. Ploszajczak, S. Drożdż, E. Caurier, The monopole and quadrupole vibrations of a hot nucleus **A507**(1990)323
Oliveira Jr., J.M., *see* Villari **A501**(1989)605
Olsen, W.C., *see* Hutcheon **A503**(1989)649
Olsson, N., *see* Borghols **A504**(1989)231
Olsson, N., E. Ramström, B. Trostell, Neutron elastic and inelastic scattering from beryllium, nitrogen and oxygen at $E_n = 21.6$ MeV **A509**(1990)161
Onel, Y., *see* Schiavon **A505**(1989)595
Orihara, H., *see* Yasue **A509**(1990)141
Orihara, H., *see* Yasue **A510**(1990)285
Orlandini, G., *see* Leidemann **A506**(1990)447
Orr, N.A., *see* Catford **A503**(1989)263
Ortner, H.W., *see* Barnes **A508**(1990)311c
Oset, E., *see* Brown **A505**(1989)823
Oset, E., *see* Chiang **A510**(1990)573
Oset, E., *see* Chiang **A510**(1990)591
Osipowicz, Th., *see* Cristancho **A501**(1989)118
Oskarsson, A., *see* Westenius **A509**(1990)630
Ostroumov, V.I., *see* Dudkin **A509**(1990)783
Otroshenko, G.A., *see* Makarenko **A502**(1989)363c
Otsuka, T., *see* Yoshida **A503**(1989) 90
Otsuka, T., Scissors and unique-parity modes of M1 excitation in deformed nuclei **A507**(1990)129c
Ovchinnikova, A.A., *see* Gmitro **A507**(1990)707
Oyaizu, M., *see* Miyatake **A501**(1989)557
Paar, V., *see* Krasznahorkay **A503**(1989)113
Pacati, F.D., *see* Giusti **A504**(1989)685
Pace, E., *see* Ciofi degli Atti **A508**(1990)349c
Paetz Gen. Schieck, H., *see* Nyga **A501**(1989)513
Pal, S., Angular momentum transfer and its misalignment due to one-body inelastic excitation in nucleus–nucleus collisions **A501**(1989)189
Pandharipande, V.R., S.C. Pieper, Monte Carlo studies of nuclei and quantum liquid drops **A507**(1990)167c
Pandharipande, V.R., R. Schiavilla, Electron scattering from light nuclei **A508**(1990)423c
Parizet, M.J., *see* Bastid **A506**(1990)637
Park, B.-Y., V. Vento, M. Rho, G.E. Brown, Proton spin, axial anomaly and the Cheshire cat principle **A504**(1989)829
Parker, P.D., *see* Champagne **A505**(1989)384
Parker, P.D., *see* Magnus **A506**(1990)332
Parmentola, J.A., *see* Bolsterli **A507**(1990)245c
Pashkevich, V.V., *see* Adeev **A502**(1989)405c
Passoja, A., *see* Krasznahorkay **A503**(1989)113
Passoja, A., *see* Gulyás **A506**(1990)196
Patin, Y., *see* Jiang **A503**(1989)560
Paton, J., The constituent quark model and beyond **A508**(1990)377c
Patyk, Z., J. Skalski, A. Sobiczewski, S. Ćwiok, Potential energy and spontaneous-fission half-lives for heavy and superheavy nuclei **A502**(1989)591c
Pauschenwein, J., L. Mathelitsch, W. Plessas, Several versions of the Bonn N-N potential tested in elastic e-d scattering **A508**(1990)253c
Pawlek, P., *see* Barnes **A508**(1990)311c
Peaslee, G.F., *see* Moretto **A502**(1989)453c
Penninga, J., *see* Stolk **A505**(1989)241
Penumetcha, V., *see* Todd Baker **A501**(1989)546
Penzo, A., *see* Dalla Torre-Colautti **A505**(1989)561
Penzo, A., *see* Schiavon **A505**(1989)595
Peresypkin, V.V., *see* Kuzmichev **A506**(1990)245
Perez, R.B., *see* Moore **A502**(1989)443c
Perez Canyellas, A., *see* Diaz Alonso **A505**(1989)695
Peschina, R., *see* Binz **A508**(1990)267c
Peterson, R.J., *see* Yasue **A509**(1990)141
Petkov, P., *see* Andrejtscheff **A505**(1989)397
Petković, T., *see* Weber **A501**(1989)765
Petrov, G.A., G.V. Valskii, A.K. Petukhov, A.Ya. Alexandrovich, Yu.S. Pleva, V.E. Sokolov, A.B. Laptev, O.A. Scherbakov, Space parity violation in nuclear fission **A502**(1989)297c
Petrovici, A., K.W. Schmid, F. Grümmer, A. Faessler, Shape coexistence at high spins in the nuclei ^{68}Ge and ^{72}Se **A504**(1989)277
Petukhov, A.K., *see* Petrov **A502**(1989)297c
Phan, X.-H., *see* Platchkov **A508**(1990)343c
Phan, X.-H., *see* Platchkov **A510**(1990)740
Pi, M., *see* Centelles **A510**(1990)397
Piasecki, E., *see* Jiang **A503**(1989)560
Piepenbring, R., Z. Szymanski, Nuclear shape and pairing vibrations in the presence of fast rotation **A505**(1989)369
Piepenbring, R., *see* Jammari **A510**(1990)339
Pieper, S.C., *see* Pandharipande **A507**(1990)167c
Pignanelli, M., *see* De Leo **A504**(1989)109
Piłat, S., *see* Staszczak **A504**(1989)589
Pinder, C.N., *see* Zybert **A510**(1990)441
Pisk, K., Z. Kaliman, B.A. Logan, Calculation of nuclear excitation in an electron transition **A504**(1989)103
Piskoř, Š., W. Schäferlingová, Spectroscopic information on ^{13,14}C, ^{15}N, ^{17}O, $^{29-31}$Si, ^{33}S, ^{38}Cl and ^{111,113,115,117}Cd from the (d, p) reaction **A510**(1990)301
Pittel, S., J. Engel, P. Vogel, X. Ji, Double beta decay in the generalized seniority scheme **A507**(1990)239c

Pitz, H.H., *see* Heil **A506**(1990)223
Pitz, H.H., *see* Zilges **A507**(1990)399
Pitz, H.H., R.D. Heil, U. Kneissl, S. Lindenstruth, U. Seemann, R. Stock, C. Wesselborg, A. Zilges, P. von Brentano, S.D. Hoblit, A.M. Nathan, Low-energy photon scattering off ^{142,146,148,150}Nd: An investigation in the mass region of a nuclear shape transition **A509**(1990)587
Pivovarov, Yu.L., A.A. Shirokov, S.A. Vorobiev, Coherent electromagnetic excitation and disintegration of relativistic nuclei passing through crystals **A509**(1990)800
Platchkov, S., A. Amroun, S. Auffret, J.M. Cavedon, P. Dreux, J. Duclos, B. Frois, D. Goutte, H. Hachemi, J. Martino, X.-H. Phan, I. Sick, Deuteron $A(Q^2)$ structure function and the neutron electric form factor **A508**(1990)343c
Platchkov, S., A. Amroun, S. Auffret, J.M. Cavedon, P. Dreux, J. Duclos, B. Frois, D. Goutte, H. Hachemi, J. Martino, X.-H. Phan, I. Sick, The deuteron $A(Q^2)$ structure function and the neutron electric form factor **A510**(1990)740
Platonov, S.Yu., O.V. Fotina, O.A. Yuminov, The study of the level density of excited nuclei of neptunium isotopes **A503**(1989)461
Plessas, W., *see* Pauschenwein **A508**(1990)253c
Pleva, Yu.S., *see* Petrov **A502**(1989)297c
Płochocki, A., *see* Szerypo **A507**(1990)357
Ploszajczak, M., *see* Okołowicz **A501**(1989)289
Ploszajczak, M., *see* Caurier **A506**(1990)262
Ploszajczak, M., *see* Okołowicz **A507**(1990)323
Poenaru, D.D., W. Greiner, M. Ivascu, Predicted halflives for cluster radioactivities **A502**(1989) 59c
Poitou, J., *see* Bastid **A506**(1990)637
Polikanov, S., Meson, Hyperon, and antiproton induced fission **A502**(1989)195c
Pollock, S.J., *see* Naus **A509**(1990)717
Polls, A., *see* Ramos **A503**(1989) 1
Polyzou, W., Elastic electron scattering front-form quantum mechanics **A508**(1990)151c
Pomorski, K., *see* Strumberger **A502**(1989)523c
Pomorski, K., *see* Staszczak **A504**(1989)589
Ponomarev, L.I., *see* Gusev **A508**(1990) 35c
Popescu, D.G., *see* Dracoulis **A510**(1990)533
Porquet, M.G., *see* Roussière **A504**(1989)511
Portezan Filho, O., *see* Villari **A501**(1989)605
Potterveld, D., *see* Freedman **A508**(1990)455c
Pouliot, J., *see* Wilhelmy **A502**(1989)601c
Pouthas, J., *see* Jiang **A503**(1989)560
Powers, R.J., *see* Weber **A501**(1989)765
Prakash, M., *see* Brown **A506**(1990)565
Prakash, S., *see* Manohar **A502**(1989)307c
Pranal, Y., *see* Jiang **A503**(1989)560
Price, C.E., *see* Bodmer **A505**(1989)123
Price, P.B., Complex radioactivity **A502**(1989) 41c
Prokofjev, P.T., *see* Schmidt **A504**(1989) 1
Protasov, K.V., *see* Dalkarov **A504**(1989)845
Providência, C., D. Brink, Hard-photon production in heavy-ion collisions and the nuclear structure function **A507**(1990)426
Qassoud, D., *see* Bastid **A506**(1990)637
Qiu, X.-J., X.-M. Xu, A chiral quark-meson soliton model for nucleon and NN interactions **A509**(1990)769
Quick, R.M., *see* Davidson **A505**(1989)300
Quinn, B., *see* Barnes **A508**(1990)311c
Racca, C., *see* Bastid **A506**(1990)637
Rahmani, A., *see* Bastid **A506**(1990)637
Ramaswami, A., *see* Manohar **A502**(1989)307c
Ramos, A., A. Polls, W.H. Dickhoff, Single-particle properties and short-range correlations in nuclear matter **A503**(1989) 1
Ramstein, B., *see* Jeanperrin **A503**(1989) 77
Ramström, E., *see* Olsson **A509**(1990)161
Randrup, J., *see* López **A503**(1989)183
Rapaport, J., *see* Marcinkowski **A501**(1989) 1
Rapin, D., *see* Schiavon **A505**(1989)595
Rapin, D., *see* Binz **A508**(1990)267c
Rath, D.P., *see* Islam **A504**(1989)367
Rauscher, A., *see* Clajus **A508**(1990)261c
Rebel, H., *see* Heide **A504**(1989)374
Rebel, H., *see* Srivastava **A506**(1990)346
Recht, J., *see* Maj **A509**(1990)413
Reddy, A.V.R., *see* Manohar **A502**(1989)307c
Redish, E.F., *see* Takeuchi **A508**(1990)247c
Reich, H., *see* Rusek **A503**(1989)223
Reichstein, I., *see* Manngård **A504**(1989)130
Reifenröther, G., E. Klempt, Antiprotonic hydrogen: From atomic capture to annihilation **A503**(1989)885
Reiner, K., *see* Ryckebusch **A505**(1989)755
Reinhard, P.-G., *see* Lauritsch **A509**(1990)287
Reinhardt, H., The chiral soliton in the proper-time regularization scheme **A503**(1989)825
Reinhardt, R., *see* Zipper **A504**(1989) 36
Reinhardt, R., *see* Andrejtscheff **A505**(1989)397
Reinhardt, W.P., A pictorial introduction to classical structures in the chaotic phase space of a collision complex **A508**(1990) 73c
Reisdorg, W., *see* Gäggeler **A502**(1989)561c
Reitz, T., U. Mosel, Ion–ion optical potentials in a relativistic model **A501**(1989)877
Remaud, B., *see* Sébille **A501**(1989)137
Remington, B.A., *see* Wilhelmy **A502**(1989)601c
Reusen, G., *see* Ahmad **A505**(1989)257

Rho, M., *see* Forkel **A504**(1989)818
Rho, M., *see* Park **A504**(1989)829
Rho, M., *see* Scoccola **A505**(1989)497
Rho, M., *see* Forkel **A509**(1990)673
Richter, A., *see* Guhr **A501**(1989) 95
Richter, A., Shell model and magnetic dipole modes in deformed nuclei **A507**(1990) 99c
Richter, A., *see* Rösch **A509**(1990)615
Richter, A., *see* Nyman **A510**(1990)189
Riedlberger, J., *see* Ahmad **A508**(1990)317c
Riess, F., *see* Bark **A501**(1989)157
Riezebos, H.J., *see* De Voigt **A507**(1990)447
Riezebos, H.J., *see* De Voigt **A507**(1990)472
Riisager, K., *see* Nyman **A510**(1990)189
Rijken, Th.A., V.G.J. Stoks, R.A.M. Klomp, J.-L. de Kok, J.J. de Swart, The Nijmegen NN phase shift analyses **A508**(1990)173c
Rijneveld, H., *see* Stolk **A505**(1989)241
Rikovska, J., N.J. Stone, P.M. Walker, W.B. Walters, Intruder states in even-even Te nuclei **A505**(1989)145
Ripka, G., *see* Jaminon **A504**(1989)733
Ritzka, R., *see* Glaesner **A509**(1990)331
Roberts, J.W., *see* Zybert **A510**(1990)441
Robertson, L.P., *see* Ahmad **A508**(1990)317c
Robinson, S., *see* Michaelsen **A501**(1989)437
Robinson, S., *see* Ulbig **A505**(1989)193
Roeckl, E., *see* Szerypo **A507**(1990)357
Rollefson, A.A., V. Wijekumar, C.P. Browne, M. Wiescher, H.J. Hausman, W.Y. Kim, P. Schmalbrock, Spectroscopic factors for proton unbound levels in ^{26}Al and their influence on stellar reaction rates **A507**(1990)413
Rollefson, A.A., *see* Lamm **A510**(1990)503
Rook, J.R., *see* Street **A504**(1989)323
Rosati, S., *see* Kievsky **A501**(1989)503
Rösch, W., P. von Neumann-Cosel, A. Richter, G. Schrieder, R. Gentner, L. Lassen, H.W. Wilschut, The role of light-particle emission in fusion-like reactions between ^{40}Ar+^{40}Ca at 20 MeV/u **A509**(1990)615
Rose, K.W., *see* Heil **A506**(1990)223
Rosenthal, A.S., *see* Halderson **A501**(1989)856
Rosier, L.H., *see* Jeanperrin **A503**(1989) 77
Rössle, E., *see* Binz **A508**(1990)267c
Rössle, E., *see* Barnes **A508**(1990)311c
Rössle, E., *see* Franz **A510**(1990)774
Rossner, H., *see* Hinde **A502**(1989)497c
Rossner, H., *see* Schwinn **A502**(1989)551c
Roussière, B., C. Bourgeois, P. Kilcher, J. Sauvage, M.G. Porquet, Decay of ^{183}Au: Low-spin states of ^{183}Pt **A504**(1989)511
Roussière, B., *see* De Voigt **A507**(1990)472
Rowe, D.J., M.G. Vassanji, J. Carvalho, The coupled-rotor-vibrator model **A504**(1989) 76
Rowe, D.J., *see* De Passos **A510**(1990)381
Roy, N., *see* Maj **A509**(1990)413
Royer, G., *see* Sébille **A501**(1989)137
Roynette, J.C., *see* Suomijärvi **A509**(1990)369
Rozmej, P., *see* Berdichevsky **A502**(1989)395c
Ruben, A., *see* Arnold **A502**(1989)325c
Rudstam, G., *see* Tengblad **A503**(1989)136
Rui, R., P. Camerini, N. Grion, R.R. Johnson, V. Sossi, M.J. Vicente Vacas, The $(\pi, 2\pi)$ reaction on few body systems **A508**(1990)551c
Ruiz, J.A., *see* Ferrero **A510**(1990)360
Ruiz Arriola, E., *see* Christov **A510**(1990)689
Rupp, G., A separable Bethe-Salpeter approach to few-nucleon systems **A508**(1990)131c
Rusek, K., J. Giroux, H.J. Jänsch, H. Vogt, K. Becker, K. Blatt, A. Gerlach, W. Korsch, H. Leucker, W. Luck, H. Reich, H.-G. Völk, D. Fick, Scattering of polarized ^{6}Li from ^{26}Mg at 44 MeV **A503**(1989)223
Ryckebusch, J., K. Heyde, D. Van Neck, M. Waroquier, Aspects of the final-state interaction and long-range correlations in quasi-elastic (e, e'p) and (e, e'n) reactions **A503**(1989)694
Ryckebusch, J., K. Heyde, D. Van Neck, M. Waroquier, K. Reiner, P. Grabmayr, G.J. Wagner, Coincidence ^{58}Ni(e, e'pi) cross sections at moderate energy and momentum transfer **A505**(1989)755
Ryde, H., *see* Westenius **A509**(1990)630
Rykaczewski, K., *see* Szerypo **A507**(1990)357
Sa, B.-H., Y.-M. Zheng, X.-Z. Zhang, Dependence of the phase transition on the mass number of hot nuclei before break-up **A509**(1990)499
Sabev, C., *see* Ahmad **A508**(1990)317c
Sagawa, H., *see* Yoshida **A503**(1989) 90
Sagawa, H., *see* Hoshino **A506**(1990)271
Sahu, R., Collective bands in ^{84}Sr **A501**(1989)311
Saito, K., *see* Soutome **A507**(1990)731
Sakaguchi, H., *see* Ieiri **A504**(1989)477
Sakamoto, H., T. Kishimoto, Self-consistent effective interactions in nuclei (I). Doubly-stretched multipole interactions in deformed nuclei **A501**(1989)205
Sakamoto, H., T. Kishimoto, Self-consistent effective interactions in nuclei (II). Higher-order effective interactions in nuclei **A501**(1989)242
Sakamoto, H., *see* Ieiri **A504**(1989)477
Sakamoto, K., M. Yoshida, Y. Kubota, T. Fukasawa, A. Kunugise, Y. Hamajima, S. Shibata, I. Fujiwara, Chromium and titanium isotopes produced

in photonuclear reactions of vanadium, revisited **A501**(1989)693
Salme, G., *see* Ciofi degli Atti **A508**(1990)349c
Salvisberg, P., *see* Weber **A501**(1989)765
Sambataro, M., *see* Schönhofen **A504**(1989)875
Samhammer, R., H. Hofmann, S. Yamaji, Self-consistent transport tensors for collective motion in several dimensions **A503**(1989)404
Sangster, T.C., *see* Wilhelmy **A502**(1989)601c
Sanjosé, V., V. Vento, Deep inelastic structure functions in the chiral bag model **A501**(1989)672
Sano, M., *see* Bandō **A501**(1989)900
Sano, M., *see* Jin **A506**(1990)655
Sargood, D.G., *see* Hansper **A504**(1989)605
Sartor, R., *see* Mahaux **A503**(1989)525
Sartor, R., *see* Mahaux **A507**(1990)155c
Satchler, G.R., Transfer reactions and optical potential ambiguities for light heavy-ion systems **A505**(1989)103
Sato, A., *see* Yasue **A509**(1990)141
Sato, A., *see* Yasue **A510**(1990)285
Sato, K., *see* Takahara **A504**(1989)167
Sauerwein, C., *see* Franz **A510**(1990)774
Sauvage, J., *see* Roussière **A504**(1989)511
Sauvage, J., *see* De Voigt **A507**(1990)472
Scarpaci, J.A., *see* Suomijärvi **A509**(1990)369
Schädel, M., *see* Gäggeler **A502**(1989)561c
Schaefer, U., *see* Ahmad **A508**(1990)317c
Schäferlingová, W., *see* Piskoř **A510**(1990)301
Schardt, D., *see* Szerypo **A507**(1990)357
Scharfe, W., *see* Heil **A506**(1990)223
Scheerer, H.J., *see* Schmidt **A504**(1989) 1
Scheid, W., *see* Fleischhauer **A504**(1989)855
Scheid, W., *see* Thiel **A504**(1989)864
Scheid, W., *see* Fleischhauer **A510**(1990)817
Schelhaas, K.P., J.M. Henneberg, N. Wieloch-Laufenberg, U. Zurmühl, B. Ziegler, M. Schumacher, F. Wolf, Nuclear photon scattering by ^{12}C **A506**(1990)307
Schellingerhout, N.W., L.P. Kok, High accuracy configuration-space Faddeev calculations **A508**(1990)299c
Scherbakov, O.A., *see* Petrov **A502**(1989)297c
Scherer, U., *see* Gäggeler **A502**(1989)561c
Scheurer, J.N., *see* Azaiez **A501**(1989)401
Schiavilla, R., *see* Pandharipande **A508**(1990)423c
Schiavon, P., *see* Dalla Torre-Colautti **A505**(1989)561
Schiavon, P., R. Birsa, K. Bos, F. Bradamante, A.S. Clough, S. Dalla Torre-Colautti, J.R. Hall, E. Heer, R. Hess, J.C. Kluyver, R.A. Kunne, C. Lechanoine-Leluc, L. Linssen, A. Martin, Y. Onel, A. Penzo, D. Rapin, R.L. Shypit, F. Tessarotto, A. Villari, Real-to-imaginary ratio of the $\bar{p}p$ forward elastic scattering amplitude at 550, 757, and 1077 MeV/c **A505**(1989)595
Schiemenz, P., *see* Eckle **A506**(1990)159
Schiffer, K., *see* Wyss **A505**(1989)337
Schillebeeckx, P., *see* Wagemans **A502**(1989)287c
Schimmerling, W., *see* Bastid **A506**(1990)637
Schindler, S., *see* Strate **A501**(1989) 51
Schippers, J.M., *see* De Leo **A504**(1989)109
Schippers, J.M., *see* Borghols **A504**(1989)231
Schippers, J.M., J.M. Schreuder, S.Y. van der Werf, K. Allaart, N. Blasi, M. Waroquier, Study of ^{116}Sn via neutron pickup and proton stripping reactions **A510**(1990) 70
Schledermann, H., *see* Barnes **A508**(1990)311c
Schmalbrock, P., *see* Rollefson **A507**(1990)413
Schmeing, H., *see* Hardy **A509**(1990)429
Schmelzbach, P.A., *see* Bruno **A501**(1989)462
Schmelzbach, P.A., *see* Clajus **A508**(1990)261c
Schmelzbach, P.A., *see* Binz **A508**(1990)267c
Schmid, K.W., *see* Petrovici **A504**(1989)277
Schmidt, H.H., P. Hungerford, T. von Egidy, H.J. Scheerer, H.G. Börner, S.A. Kerr, K. Schreckenbach, F. Hoyler, G.G. Colvin, A.M. Bruce, R.F. Casten, D.D. Warner, I.L. Kugava, V.A. Bondarenko, N.D. Kramer, P.T. Prokofjev, A. Chalupka, Nuclear structure of ^{163}Dy studied with (n, γ), $(n, n'\gamma)$, (d, p) and (d, t) reactions **A504**(1989) 1
Schmidt-Fabian, R., *see* Glässel **A502**(1989)315c
Schmitt, H., *see* Binz **A508**(1990)267c
Schmitt, H., *see* Barnes **A508**(1990)311c
Schmitt, H., *see* Franz **A510**(1990)774
Schmitt, K.-M., *see* Adam Jr. **A507**(1990)675
Schmoll, K., *see* Franz **A510**(1990)774
Schölermann, H., R. Böttger, Q-values for (p, n) reactions on ^{65}Cu and ^{51}V **A501**(1989) 86
Scholten, O., *see* Uchiyama **A503**(1989)723
Schönhofen, M., M. Cubero, M. Gering, M. Sambataro, H. Feldmeier, W. Nörenberg, The nuclear equation of state in effective relativistic field theories and pion yields in heavy-ion collisions **A504**(1989)875
Schreckenbach, K., *see* Kossakowski **A503**(1989)473
Schreckenbach, K., *see* Schmidt **A504**(1989) 1
Schreiber, O., *see* Ahmad **A508**(1990)317c
Schreuder, J.M., *see* Schippers **A510**(1990) 70
Schrieder, G., *see* Rösch **A509**(1990)615
Schröder, W.U., J.R. Huizenga, Heavy-ion-induced fission – experimental status **A502**(1989)473c
Schubank, R., *see* Chan **A510**(1990)713
Schuck, P., *see* Sébille **A501**(1989)137
Schuck, P., *see* Janssen **A501**(1989)270

Schumacher, M., *see* Heil **A506**(1990)223
Schumacher, M., *see* Schelhaas **A506**(1990)307
Schussler, F., *see* Jakobsson **A509**(1990)195
Schussler, F., *see* Westenius **A509**(1990)630
Schuster, W., *see* Clajus **A508**(1990)261c
Schwalm, D., *see* Glässel **A502**(1989)315c
Schweiger, W., *see* Kroll **A503**(1989)865
Schwengner, R., J. Döring, L. Funke, G. Winter, A. Johnson, W. Nazarewicz, Three-quasiparticle excitations in ^{79}Kr **A509**(1990)550
Schwinn, E., B. Cramer, G. Ingold, U. Jahnke, D. Hilscher, M. Lehmann, H. Rossner, Fission-fragment angular distributions under extreme conditions: Following sequential to deep-inelastic collisions and complete fusion in ^{40}Ar(10 MeV/u)+^{nat}U **A502**(1989)551c
Schwinn, E., *see* Jiang **A503**(1989)560
Scoccola, N.N., D.P. Min, H. Nadeau, M. Rho, The strageness problem: An SU(3) skyrmion with vector mesons **A505**(1989)497
Scoccola, N.N., *see* Forkel **A509**(1990)673
Scott, A.F., *see* Hansper **A504**(1989)605
Sébille, F., G. Royer, C. Grégoire, B. Remaud, P. Schuck, Nuclear dynamics with the (finite-range) Gogny force: Flow effects **A501**(1989)137
Seeliger, D., *see* Arnold **A502**(1989)325c
Seemann, U., *see* Weber **A502**(1989)279c
Seemann, U., *see* Heil **A506**(1990)223
Seemann, U., *see* Zilges **A507**(1990)399
Seemann, U., *see* Pitz **A509**(1990)587
Segel, R.E., *see* Freedman **A508**(1990)455c
Sehl, G., *see* Barnes **A508**(1990)311c
Seiffert, F., *see* Zipper **A504**(1989) 36
Sekatsky, S.K., *see* Alkhazov **A504**(1989)549
Sekine, T., *see* Nagame **A510**(1990)518
Sekioka, T., Breakup of ^{3}He by alpha particles at 119.2 MeV **A510**(1990)417
Selector, Ya.M., *see* Abdullin **A506**(1990)471
Selector, Ya.M., *see* Blinov **A510**(1990)803
Seres, Z., *see* Franz **A510**(1990)774
Sethi, A., *see* Todd Baker **A501**(1989)546
Seydoux, J., *see* Barnes **A508**(1990)311c
Sharma, M.M., *see* Borghols **A504**(1989)231
Sharma, M.M., W. Stocker, P. Gleissl, M. Brack, Nuclear matter incompressibility from a semi-empirical analysis of breathing-mode energies **A504**(1989)337
Sharpey-Schafer, J.F., *see* Zybert **A510**(1990)441
Sheppard, D.M., *see* Hutcheon **A503**(1989)649
Shibata, S., *see* Sakamoto **A501**(1989)693
Shigehara, T., K. Shimizu, A. Arima, Isoscalar spin response functions in the quasielastic scattering region **A510**(1990)106
Shimada, T., *see* Kagaya **A503**(1989)766
Shimizu, H., *see* Yasue **A509**(1990)141
Shimizu, H., *see* Yasue **A510**(1990)285
Shimizu, K., *see* Takeuchi **A504**(1989)777
Shimizu, K., *see* Bräuer **A507**(1990)599
Shimizu, K., *see* Shigehara **A510**(1990)106
Shimizu, K., *see* Fleck **A510**(1990)731
Shimizu, Y.R., E. Vigezzi, R.A. Broglia, Effects of pairing correlations on superdeformed bands in the $A \approx 150$ region **A509**(1990) 80
Shinmura, S., *see* Harada **A507**(1990)715
Shinozuka, T., *see* Miyatake **A501**(1989)557
Shirokov, A.A., *see* Pivovarov **A509**(1990)800
Shoda, K., *see* Kagaya **A503**(1989)766
Shulyachenko, V.N., *see* Abdullin **A506**(1990)471
Shulyachenko, V.N., *see* Blinov **A510**(1990)803
Shypit, R.L., *see* Schiavon **A505**(1989)595
Sick, I., *see* Donnelly **A503**(1989)589
Sick, I., *see* Platchkov **A508**(1990)343c
Sick, I., *see* Platchkov **A510**(1990)740
Sicre, A., *see* Boucheneb **A502**(1989)261c
Sida, J.L., P. Armbruster, M. Bernas, J.P. Bocquet, R. Brissot, H.R. Faust, Mass, charge, and energy distributions in very asymmetric thermal fission of ^{235}U **A502**(1989)233c
Signal, A.I., Calculations of nucleon structure functions **A508**(1990)493c
Šimičević, N., *see* Weber **A501**(1989)765
Šimkovic, F., *see* Gmitro **A507**(1990)707
Simonius, M., *see* Smyrski **A501**(1989)319
Simpson, B.R.S., F.D. Brooks, Analyzing power in neutron-proton scattering at 21.6 MeV **A505**(1989)361
Simpson, J., *see* Wyss **A503**(1989)244
Simpson, J., *see* Heil **A506**(1990)223
Sivak, H., *see* Diaz Alonso **A505**(1989)695
Skalski, J., *see* Patyk **A502**(1989)591c
Skeppstedt, O., *see* Chishti **A501**(1989)568
Skoda, S., *see* Cristancho **A501**(1989)118
Slaus, I., *see* Clajus **A508**(1990)261c
Smirenkin, G.N., *see* Itkis **A502**(1989)243c
Smith, G.R., *see* Hutcheon **A503**(1989)649
Smith, G.R., Spin observables in πd reactions and scattering **A508**(1990)215c
Smith, M.S., *see* Champagne **A505**(1989)384
Smith, M.S., *see* Magnus **A506**(1990)332
Smithson, M.J., *see* Thompson **A505**(1989) 84
Smyrski, J., St. Kistryn, J. Lang, J. Liechti, H. Lüscher, Th. Maier, R. Müller, M. Simonius, J. Sromicki, F. Foroughi, W. Haeberli, A precision measurement of the analyzing power A_y in pp elastic scattering at 50.04 MeV **A501**(1989)319
Sneppen, K., *see* Jakobsson **A509**(1990)195
Sobiczewski, A., *see* Patyk **A502**(1989)591c
Söderström, K., *see* Jakobsson **A509**(1990)195

Sofianos, S.A., *see* Leeb **A508**(1990)365c
Sohlbach, H., *see* Baumann **A502**(1989)271c
Sokolov, A., *see* Jiang **A503**(1989)560
Sokolov, V.E., *see* Petrov **A502**(1989)297c
Sokolov, V.V., V.G. Zelevinsky, Dynamics and statistics of unstable quantum states **A504**(1989)562
Soloviev, V.V., *see* Blinov **A510**(1990)803
Solovyev, V.V., *see* Abdullin **A506**(1990)471
Sona, P., *see* Ulbig **A505**(1989)193
Sossi, V., *see* Dalla Torre-Colautti **A505**(1989)561
Sossi, V., *see* Rui **A508**(1990)551c
Soutome, K., T. Maruyama, K. Saito, Relativistic σ-ω model at finite temperature in thermo field dynamics **A507**(1990)731
Sowinski, J., *see* Knutson **A508**(1990)185c
Sperber, D., J. Stryjewski, The role of wall dissipation and collective inertias in heavy-ion scattering **A505**(1989)471
Sperisen, F., *see* Clajus **A508**(1990)261c
Speth, J., *see* Drożdż **A501**(1989)487
Speth, J., *see* Büttgen **A506**(1990)586
Spit, W.F.M., A.G.M. van Hees, P.J. Mulders, Quark exchange and nuclear form factors **A510**(1990)609
Srivastava, A., *see* Manohar **A502**(1989)307c
Srivastava, B.K., *see* Manohar **A502**(1989)307c
Srivastava, D.K., *see* Heide **A504**(1989)374
Srivastava, D.K., H. Rebel, N. Heide, A prior-form distorted-wave Born approximation analysis of the elastic breakup of 156 MeV ^{6}Li projectiles **A506**(1990)346
Sromicki, J., *see* Smyrski **A501**(1989)319
Stassart, P., *see* Jaminon **A504**(1989)733
Staszczak, A., S. Piłat, K. Pomorski, Influence of the pairing vibrations on spontaneous fission probability **A504**(1989)589
Steinacher, M., *see* Weber **A501**(1989)765
Steiper, F., *see* Weber **A502**(1989)279c
Stephens, F.S., *see* De Voigt **A507**(1990)447
Stephens, F.S., *see* De Voigt **A507**(1990)472
Stephenson, E.J., *see* Johnson **A505**(1989) 26
Stern, J., G. Clément, Spin, masses and other baryonic observables in a chiral model of quark and gluon confinement **A504**(1989)621
Stinzing, F., *see* Barnes **A508**(1990)311c
Stock, R., *see* Zilges **A507**(1990)399
Stock, R., *see* Pitz **A509**(1990)587
Stocker, W., *see* Sharma **A504**(1989)337
Stoks, V.G.J., *see* Rijken **A508**(1990)173c
Stokstad, R.G., *see* Wilhelmy **A502**(1989)601c
Stolk, A., A. Balanda, M.N. Harakeh, W.H.A. Hesselink, J. Penninga, H. Rijneveld, The giant dipole resonance built on excited states in ^{113,114}Sn and level densities in the vicinity of the neutron separation energy **A505**(1989)241
Stone, N.J., *see* Rikovska **A505**(1989)145
Stoyanov, Ch., *see* Andrejtscheff **A505**(1989)397
Strakovsky, I.I., *see* Bakker **A505**(1989)551
Strate, J., K. Geissdörfer, R. Lin, W. Bielmeir, J. Cub, A. Ebneth, E. Finckh, H. Friess, G. Fuchs, K. Gebhardt, S. Schindler, Differential cross section of the ^{2}H(n, nnp)-reaction at E_n = 13 MeV **A501**(1989) 51
Straub, U., Z.-Y. Zhang, K. Bräuer, A. Faessler, S.B. Khadkikar, G. Lübeck, Hyperon–nucleon interaction and the H-dibaryon in the quark cluster model **A508**(1990)385c
Straumann, U., *see* Ahmad **A508**(1990)317c
Street, A.M., W. Haider, J.R. Rook, Contribution of three-body terms to the calculated nucleon optical potential **A504**(1989)323
Strikman, M., Hard nuclear reactions with light nuclei - Short range correlations and QCD effects **A508**(1990)465c
Strizhov, V.F., *see* Eremin **A510**(1990)125
Ströher, H., *see* Weber **A502**(1989)279c
Struble, G.L., *see* Wilhelmy **A502**(1989)601c
Strumberger, E., K. Dietrich, K. Pomorski, What can we learn about the fission process from the spectrum of 'prefission' neutrons? **A502**(1989)523c
Strutinsky, V., Macroscopic and microscopic aspects in nuclear fission **A502**(1989) 67c
Stryjewski, J., *see* Sperber **A505**(1989)471
Stuchbery, A.E., *see* Bark **A501**(1989)157
Stuchbery, A.E., *see* Dracoulis **A509**(1990)605
Stuchbery, A.E., *see* Dracoulis **A510**(1990)533
Suehiro, T., *see* Yasue **A509**(1990)141
Suehiro, T., *see* Yasue **A510**(1990)285
Sueki, K., *see* Miyatake **A501**(1989)557
Sümmerer, K., *see* Gäggeler **A502**(1989)561c
Sun, Y., D.J. Kouri, D.G. Truhlar, A comparative analysis of variational methods for inelastic and reactive scattering **A508**(1990) 41c
Sung, B.N., *see* Moon **A510**(1990)173
Suomijärvi, T., D. Beaumel, Y. Blumenfeld, Ph. Chomaz, N. Frascaria, J.P. Garron, J.C. Roynette, J.A. Scarpaci, J. Barrette, B. Fernandez, J. Gastebois, W. Mittig, Excitation of giant resonances in heavy-ion reactions at intermediate energies: Results from the ^{40}Ar+^{90}Zr and ^{208}Pb experiments at 41 MeV/u **A509**(1990)369

Sur, B., *see* Browne **A501**(1989)477
Suzuki, N., *see* Fujita **A503**(1989)899
Swenson, L.W., *see* Chen **A505**(1989)670
Sy Savane, Y., *see* Andrejtscheff **A505**(1989)397
Szerypo, J., R. Barden, Ł. Kalinowski, R. Kirchner, O. Klepper, A. Płochocki, E. Roeckl, K. Rykaczewski, D. Schardt, J. Żylicz, Low-lying levels in ^{104}In and a problem of spin-mixing in hyperfine fields **A507**(1990)357
Szöghy, I.M., *see* Dasmahapatra **A509**(1990)393
Szymanski, Z., *see* Piepenbring **A505**(1989)369
Taccetti, N., *see* Ulbig **A505**(1989)193
Takada, K., *see* Yamada **A503**(1989) 53
Takada, K., Spurious states in boson mapping theory **A510**(1990)244
Takahara, M., M. Hino, T. Oda, K. Muto, A.A. Wolters, P.W.M. Glaudemans, K. Sato, Microscopic calculation of the rates of electron captures which induce the collapse of O + Ne + Mg cores **A504**(1989)167
Takahashi, Y., S. Yoshida, Statistical theory of decay of giant resonances **A507**(1990)371
Takahashi, Y., *see* Yasue **A509**(1990)141
Takahashi, Y., *see* Yasue **A510**(1990)285
Takamatsu, J., *see* Yasue **A509**(1990)141
Takamatsu, J., *see* Yasue **A510**(1990)285
Takayanagi, K., Sum rules in the response function method **A510**(1990)162
Takeshita, K., *see* Kagaya **A503**(1989)766
Takeuchi, S., K. Shimizu, K. Yazaki, Nucleon–nucleon interaction in the quark cluster model **A504**(1989)777
Takeuchi, S., T. Cheon, E.F. Redish, Quark model potential and the three nucleon bound state **A508**(1990)247c
Takeuchi, Y., *see* Ieiri **A504**(1989)477
Takizawa, M., K. Tsushima, Y. Kohyama, K. Kubodera, Study of meson properties and quark condensates in the Nambu–Jona-Lasinio model with instanton effects **A507**(1990)611
Talmi, I., The shell model – successes and limitations **A507**(1990)295c
Tamura, K., *see* Warner **A503**(1989)161
Tanaka, H., *see* Harada **A507**(1990)715
Tanaka, J., *see* Miyatake **A501**(1989)557
Tanaka, M., *see* Nakayama **A507**(1990)515
Tanaka, M.H., *see* Yasue **A509**(1990)141
Tanaka, M.H., *see* Yasue **A510**(1990)285
Tang, Y.C., *see* Kanada **A504**(1989)529
Tang, Z., *see* Chen **A505**(1989)670
Tengblad, D., K. Aleklett, R. von Dincklage, E. Lund, G. Nyman, G. Rudstam, Integral $\bar{\nu}$-spectra derived from experimental β-spectra of individual fission products **A503**(1989)136
Tengblad, O., *see* Nyman **A510**(1990)189
Terrien, Y., *see* Bastid **A506**(1990)637
Tessarotto, F., *see* Schiavon **A505**(1989)595
Theobald, J.P., P. Heeg, M. Mutterer, Low-energy ternary fission **A502**(1989)343c
Thibaud, J.P., *see* Azaiez **A501**(1989)401
Thiel, J., T. Lippert, N. Grün, W. Scheid, Cross sections for photons produced in the stopping phase in relativistic heavy-ion collisions **A504**(1989)864
Thompson, I.J., M.A. Nagarajan, J.S. Lilley, M.J. Smithson, The threshold anomaly in ^{16}O + ^{208}Pb scattering **A505**(1989) 84
Thompson, M.J., *see* Abdelaziz **A503**(1989)452
Thompson, M.J., J.P. Elliott, J.A. Evans, A microscopic IBM2 hamiltonian for particle–hole systems **A504**(1989)436
Thompson, M.N., *see* Karataglidis **A501**(1989)108
Thompson, W.J., *see* McAbee **A509**(1990) 39
Thorn, C.E., *see* Wilhelmy **A502**(1989)601c
Thorsteinsen, T.F., *see* Westenius **A509**(1990)630
Tiator, L., C. Bennhold, R. Neuhausen, Inelastic electron scattering and pion photoproduction on ^{12}C **A501**(1989)751
Tiator, L., D. Drechsel, Photoproduction of neutral pions and low energy theorems **A508**(1990)541c
Timár, J., *see* Krasznahorkay **A503**(1989)113
Timár, J., *see* Gulyás **A506**(1990)196
Tims, S.G., *see* Hansper **A504**(1989)605
Tingwell, C.I.W., *see* Hansper **A504**(1989)605
Todd Baker, F., A. Sethi, V. Penumetcha, G.T. Emery, W.P. Jones, M.A. Grimm, M.L. Whiten, ^{192}Os($\vec{p}$, p′) reaction at 135 MeV **A501**(1989)546
Todenhagen, R., *see* Binz **A508**(1990)267c
Togawa, H., *see* Ieiri **A504**(1989)477
Tohei, T., *see* Yasue **A509**(1990)141
Tohei, T., *see* Yasue **A510**(1990)285
Toki, H., S. Hirenzaki, T. Yamazaki, R.S. Hayano, Structure and formation of deeply-bound pionic atoms **A501**(1989)653
Toki, H., *see* Hosaka **A506**(1990)501
Tosaki, M., *see* Warner **A503**(1989)161
Tostevin, J.A., *see* Johnson **A505**(1989) 26
Towner, I.S., *see* Hardy **A509**(1990)429
Toyokawa, H., *see* Yasue **A509**(1990)141
Toyokawa, H., *see* Yasue **A510**(1990)285
Trautmann, W., *see* Wilhelmy **A502**(1989)601c
Trautmann, W., *see* Glaesner **A509**(1990)331
Trombik, W., *see* Glaesner **A509**(1990)331
Trostell, B., *see* Olsson **A509**(1990)161

Truhlar, D.G., *see* Sun **A508**(1990) 41c
Truhlik, E., *see* Adam Jr. **A507**(1990)675
Truoel, P., *see* Ahmad **A508**(1990)317c
Tsubota, H., *see* Kagaya **A503**(1989)766
Tsushima, K., *see* Takizawa **A507**(1990)611
Tsutsumi, T., *see* Ieiri **A504**(1989)477
Tung, T.-Y., *see* Freedman **A508**(1990)455c
Türler, A., *see* Gäggeler **A502**(1989)561c
Turov, V.F., *see* Abdullin **A506**(1990)471
Turov, V.F., *see* Blinov **A510**(1990)803
Uchiyama, T., A.E.L. Dieperink, O. Scholten, Quark exchange effect on the Coulomb energies of three-body nuclei **A503**(1989)723
Uechi, H., Fermi-liquid properties of nuclear matter in a Dirac-Hartree-Fock approximation **A501**(1989)813
Ueda, T., A relativistic and unitary theory for the systems of NNN-πNNN and pd-^{3}Heπ^0(tπ^+) reaction in the Δ energy region **A505**(1989)610
Ulbig, S., *see* Cristancho **A501**(1989)118
Ulbig, S., *see* Gross **A501**(1989)367
Ulbig, S., K.P. Lieb, Ch. Winter, H.G. Börner, J. Jolie, S. Robinson, P.A. Mando, P. Sona, N. Taccetti, M.S. Dewey, J.G.L. Booten, F. Brandolini, Lifetime measurements in ^{57}Fe following the ^{56}Fe(n, γ) and ^{56}Fe(d, p) reactions **A505**(1989)193
Ullrich, H., *see* Weber **A501**(1989)765
Ussery, L., *see* Vartsky **A505**(1989)328
Uzereau, J.L., *see* Jiang **A503**(1989)560
Valette, O., *see* Bastid **A506**(1990)637
Valskii, G.V., *see* Petrov **A502**(1989)297c
Vandenbosch, R., Nuclear fission: What have we learned in 50 years? **A502**(1989) 1c
Van den Brandt, B., *see* Binz **A508**(1990)267c
Van der Werf, S.Y., *see* De Leo **A504**(1989)109
Van der Werf, S.Y., *see* Schippers **A510**(1990) 70
Van der Woude, A., *see* Borghols **A504**(1989)231
Van Duppen, P., *see* Ahmad **A505**(1989)257
Van Hees, A.G.M., J.G.L. Booten, P.W.M. Glaudemans, Three-body forces in p-shell nuclei **A507**(1990) 55c
Van Hees, A.G.M., *see* Endt **A510**(1990)209
Van Hees, A.G.M., *see* Spit **A510**(1990)609
Van Isacker, P., J. Jolie, Description of vibrational odd-odd nuclei with the interacting boson-fermion-fermion model **A503**(1989)429
Van Neck, D., *see* Ryckebusch **A503**(1989)694
Van Neck, D., *see* Ryckebusch **A505**(1989)755
Vanyushin, I.A., *see* Abdullin **A506**(1990)471
Vanyushin, I.A., *see* Blinov **A510**(1990)803
Varley, B.J., *see* Gross **A501**(1989)367
Varley, B.J., *see* Chishti **A501**(1989)568
Vartsky, D., M.B. Goldberg, G. Engler, A. Goldschmidt, A. Breskin, R.E. Morgado, C. Hollas, L. Ussery, B.L. Berman, C. Moss, The total width of the 9.17 MeV level in ^{14}N **A505**(1989)328
Vassanji, M.G., *see* Rowe **A504**(1989) 76
Vassanji, M.G., *see* De Passos **A510**(1990)381
Vento, V., *see* Sanjosé **A501**(1989)672
Vento, V., *see* González **A501**(1989)710
Vento, V., *see* Park **A504**(1989)829
Verbaarschott, J.J.M., *see* Castillejo **A501**(1989)801
Vergados, J.D., Theory of 0ν $\beta\beta$-decay beyond closure approximation **A506**(1990)482
Vergados, J.D., *see* Kosmas **A510**(1990)641
Vetterli, M., *see* Chen **A505**(1989)670
Vicente Vacas, M., *see* Brown **A505**(1989)823
Vicente Vacas, M.J., *see* Rui **A508**(1990)551c
Videbaek, F., *see* Wilhelmy **A502**(1989)601c
Vigdor, S.E., *see* Knutson **A508**(1990)185c
Vigezzi, E., *see* Shimizu **A509**(1990) 80
Villari, A., *see* Dalla Torre-Colautti **A505**(1989)561
Villari, A., *see* Schiavon **A505**(1989)595
Villari, A.C.C., A. Lépine-Szily, R. Lichtenthäler Filho, O. Portezan Filho, M.M. Obuti, J.M. Oliveira Jr., N. Added, Total reaction cross section and forward glory for ^{12}C+^{16}O **A501**(1989)605
Villavecchia, C., *see* Alberico **A505**(1989)309
Viñas, X., *see* Centelles **A510**(1990)397
Viola, V.E., Fission: A filter for the study of nuclear reaction mechanisms **A502**(1989)531c
Virtanen, A., *see* Juutinen **A504**(1989)205
Vise, J., *see* Graff **A510**(1990)346
Viviani, M., *see* Kievsky **A501**(1989)503
Vogel, P., *see* Pittel **A507**(1990)239c
Vogt, E., Welcome and opening remarks **A508**(1990) 1c
Vogt, H., *see* Rusek **A503**(1989)223
Völk, H.-G., *see* Rusek **A503**(1989)223
Vonach, H., *see* Ahmad **A508**(1990)317c
Von Brentano, P., *see* Cristancho **A501**(1989)118
Von Brentano, P., *see* Zipper **A504**(1989) 36
Von Brentano, P., *see* Wyss **A505**(1989)337
Von Brentano, P., *see* Andrejtscheff **A505**(1989)397
Von Brentano, P., *see* Heil **A506**(1990)223
Von Brentano, P., *see* Pitz **A509**(1990)587
Von Dincklage, R., *see* Tengblad **A503**(1989)136
Von Egidy, T., *see* Michaelsen **A501**(1989)437
Von Egidy, T., *see* Schmidt **A504**(1989) 1
Von Frankenberg, R., *see* Barnes **A508**(1990)311c
Von Helmolt, H.U., *see* Glässel **A502**(1989)315c
Von Neumann-Cosel, P., *see* Rösch **A509**(1990)615
Vorobiev, S.A., *see* Pivovarov **A509**(1990)800
Vuaridel, B., *see* Bruno **A501**(1989)462
Vuaridel, B., *see* Borbély **A503**(1989)349
Vuaridel, B., *see* Clajus **A508**(1990)261c

Wagemans, C., P. Schillebeeckx, A. Deruytter, Investigation of neutron shell effects and fission channels in the spontaneous fission of the Pu-isotopes **A502**(1989)287c
Wagner, G.J., *see* Ryckebusch **A505**(1989)755
Wakai, M., *see* Bandō **A501**(1989)900
Walet, N.R., A. Klein, Thermal boson expansions and dynamical symmetry **A510**(1990)261
Walker, P.M., *see* Rikovska **A505**(1989)145
Walker, R., *see* Freedman **A508**(1990)455c
Wallace, S.J., V.B. Mandelzweig, Covariant two-body equations for scalar and Dirac particles **A503**(1989)673
Walters, W.B., *see* Rikovska **A505**(1989)145
Wang, T.R., *see* Graff **A510**(1990)346
Warner, D.D., *see* Schmidt **A504**(1989) 1
Warner, R.E., O. Akihana, M. Fujiwara, N. Matsuoka, K. Tamura, M. Tosaki, T. Ohsawa, K. Fukunaga, S. Kakigi, J. Kasagi, N. Koori, Joint momentum distribution of p+n in ^{6}Li **A503**(1989)161
Waroquier, M., *see* Ryckebusch **A503**(1989)694
Waroquier, M., *see* Ryckebusch **A505**(1989)755
Waroquier, M., *see* Schippers **A510**(1990) 70
Wauters, J., *see* Ahmad **A505**(1989)257
Webb, M.L., *see* Wilhelmy **A502**(1989)601c
Weber, F., M.K. Weigel, Baryon composition and macroscopic properties of neutron stars **A505**(1989)779
Weber, M., *see* Baur **A504**(1989)352
Weber, P., G. Backenstoss, M. Iżycki, R.J. Powers, P. Salvisberg, M. Steinacher, H.J. Weyer, S. Cierjacks, A. Hoffart, H. Ullrich, M. Furić, T. Petković, N. Šimičević, Two-nucleon absorption of π^+ and π^- on ^{3}He across the Δ-resonance region **A501**(1989)765
Weber, Th., W. Wilke, H.J. Emrich, R.D. Heil, Th. Kihm, U. Kneissl, K.T. Knöpfle, U. Seemann, F. Steiper, H. Ströher, Evidence for different fission fragment mass asymmetries for specific nuclear excitations studied in (e, e'f) and (γ, f) reactions **A502**(1989)279c
Weber, Th., *see* Heil **A506**(1990)223
Weber, Th., R.D. Heil, U. Kneissl, W. Wilke, Th. Kihm, K.T. Knöpfle, H.J. Emrich, (e, e'f) coincidence experiments on ^{235}U and ^{238}U **A510**(1990) 1
Wehrberger, K., C. Bedau, F. Beck, Electromagnetic excitation of the delta-baryon in quantum hadrodynamics **A504**(1989)797
Wei, J.X., *see* Lestone **A509**(1990)178
Weidenauer, P., *see* Ahmad **A508**(1990)317c
Weidenmüller, H.A., Dissipation mechanisms **A502**(1989)387c
Weidenmüller, H.A., Why the shell-model came as a surprise **A507**(1990) 5c
Weidmann, R., *see* Clajus **A508**(1990)261c
Weigel, M.K., *see* Weber **A505**(1989)779
Weigmann, H., H.-K. Knitter, F.-J. Hambsch, Light particle and photo induced fission **A502**(1989)177c
Weinstein, J., *see* Maltman **A508**(1990)371c
Weise, W., *see* Brown **A505**(1989)823
Weise, W., *see* Hosaka **A506**(1990)501
Weiss, C., *see* Forkel **A504**(1989)818
Weller, H.R., The D-state of ^{4}He and the ^{2}H(d, γ)^{4}He reaction from $E_d = 800$ keV to 50 MeV **A508**(1990)273c
Weneser, J., *see* Baltz **A505**(1989) 67
Weng, P.K., *see* Bark **A501**(1989)157
Wentz, J., *see* Heide **A504**(1989)374
Wesselborg, C., *see* Heil **A506**(1990)223
Wesselborg, C., *see* Zilges **A507**(1990)399
Wesselborg, C., *see* Pitz **A509**(1990)587
Westenius, M., M. Berg, H.-Å. Gustafsson, B. Jakobsson, A. Kristiansson, A. Oskarsson, H. Ryde, S. Kox, F. Merchez, F. Schussler, J.P. Bondorf, O.-B. Nielsen, E. Andersen, G. Løvhøiden, T.F. Thorsteinsen, M. Maurel, Light-particle emission and projectile breakup in 35A MeV ^{12}C induced collisions **A509**(1990)630
Westfall, G.D., *see* Wilhelmy **A502**(1989)601c
Weyer, H.J., *see* Weber **A501**(1989)765
Whiddon, C., *see* Knutson **A508**(1990)185c
White, B.L., *see* Ahmad **A508**(1990)317c
Whiten, M.L., *see* Todd Baker **A501**(1989)546
Wieloch-Laufenberg, N., *see* Schelhaas **A506**(1990)307
Wiescher, M., *see* Rollefson **A507**(1990)413
Wiescher, M., *see* Graff **A510**(1990)346
Wiescher, M., *see* Lamm **A510**(1990)503
Wijekumar, V., *see* Rollefson **A507**(1990)413
Wilets, L., *see* Alberg **A508**(1990)323c
Wilhelmsen, K., *see* Nyman **A510**(1990)189
Wilhelmy, J.B., M. Begemann-Blaich, T. Blaich, J. Boissevain, M.M. Fowler, A. Gavron, B.V. Jacak, P.S. Lysaght, H.C. Britt, D.J. Fields, L.F. Hansen, R.G. Lanier, D.J. Massoletti, M.N. Namboodiri, B.A. Remington, T.C. Sangster, G.L. Struble, M.L. Webb, Y.D. Chan, A. Dacai, A. Harmon, J. Leyba, J. Pouliot, R.G. Stokstad, O. Hansen, M.J. Levine, C.E. Thorn, W. Trautmann, B. Dichter, S. Kaufman, F. Videbaek, Z. Fraenkel, G.

Mamane, D. Cebra, G.D. Westfall, Fission in intermediate energy heavy ion reactions **A502**(1989)601c
Wilke, W., *see* Weber **A502**(1989)279c
Wilke, W., *see* Weber **A510**(1990) 1
Wilkinson, D.H., Future prospects in the QCD era: for how long will the shell model last? **A507**(1990)281c
Wilschut, H.W., *see* Rösch **A509**(1990)615
Winter, Ch., *see* Michaelsen **A501**(1989)437
Winter, Ch., *see* Ulbig **A505**(1989)193
Winter, G., *see* Schwengner **A509**(1990)550
Wirzba, A., *see* Forkel **A504**(1989)818
Wissink, S.W., *see* Knutson **A508**(1990)185c
Witała, H., *see* Glöckle **A508**(1990)115c
Witała, H., *see* Clajus **A508**(1990)261c
Wodrich, W.R., *see* Ahmad **A508**(1990)317c
Wohn, F.K., H. Mach, M. Moszyński, R.L. Gill, R.F. Casten, Sudden shape change from spherical to maximally deformed for $A \simeq 100$ nuclei **A507**(1990)141c
Wolf, F., *see* Schelhaas **A506**(1990)307
Wolter, H.H., *see* Eckle **A506**(1990)159
Wolter, H.H., *see* Nakayama **A507**(1990)515
Wolters, A.A., *see* Takahara **A504**(1989)167
Wolters, A.A., *see* Endt **A510**(1990)209
Woods, C.L., *see* Catford **A503**(1989)263
Woodward, C., *see* Freedman **A508**(1990)455c
Wozniak, G.J., *see* Moretto **A502**(1989)453c
Wrzecionko, J., *see* Belyaev **A508**(1990)109c
Wu, C.-L., *see* Zhang **A505**(1989) 7
Wu, H., *see* Zhang **A505**(1989) 7
Wyborny, P., *see* Büttgen **A506**(1990)586
Wycech, S., *see* Green **A509**(1990)687
Wyss, R., F. Lidén, J. Nyberg, A. Johnson, D.J.G. Love, A.H. Nelson, D.W. Banes, J. Simpson, A. Kirwan, R. Bengtsson, Spectroscopy of ^{123}La and con figuration dependent proton pairing **A503**(1989)244
Wyss, R., *see* Nazarewicz **A503**(1989)285
Wyss, R., A. Granderath, R. Bengtsson, P. von Brentano, A. Dewald, A. Gelberg, A. Gizon, J. Gizon, S. Harissopulos, A. Johnson, W. Lieberz, W. Nazarewicz, J. Nyberg, K. Schiffer, Interplay between proton and neutron S-bands in the Xe-Ba-Ce-region **A505**(1989)337
Xu, G.-O., *see* Li **A510**(1990)557
Xu, X.-M., *see* Qiu **A509**(1990)769
Xu, Z., *see* Chen **A505**(1989)670
Yamada, K., K. Takada, Microscopic study on the shape phase transition in the Sm isotopes (III). E2 transition **A503**(1989) 53
Yamagata, T., *see* Nakayama **A507**(1990)515
Yamaji, S., *see* Samhammer **A503**(1989)404
Yamazaki, T., *see* Toki **A501**(1989)653
Yankov, G.B., *see* Makarenko **A502**(1989)363c
Yankov, G.B., *see* Bochkarev **A505**(1989)215
Yasue, M., M.H. Tanaka, T. Hasegawa, K. Nisimura, H. Ohnuma, H. Shimizu, K. Ieki, H. Toyokawa, M. Iwase, J. Iimura, H. Yoshida, T. Nakagawa, A. Sato, T. Niizeki, J. Takamatsu, Y. Takahashi, T. Tohei, H. Orihara, T. Suehiro, S.I. Hayakawa, K. Ogawa, M. Igarashi, R.J. Peterson, Structure of ^{14}C studied by the ^{14}C(p, d)^{13}C reaction **A509**(1990)141
Yasue, M., M.H. Tanaka, T. Hasegawa, K. Nisimura, S. Kubono, H. Ohnuma, H. Shimizu, K. Ieki, H. Toyokawa, M. Iwase, J. Iimura, H. Yoshida, T. Nakagawa, A. Sato, T. Niizeki, J. Takamatsu, Y. Takahashi, T. Tohei, H. Orihara, T. Suehiro, S.I. Hayakawa, M. Igarashi, Systematic enhancement for the ^{14}C(p, t)^{12}C reaction leading to the $T = 0$ states **A510**(1990)285
Yazaki, K., *see* Asakawa **A504**(1989)668
Yazaki, K., *see* Takeuchi **A504**(1989)777
Yazaki, K., *see* Arima **A506**(1990)553
Yazaki, K., *see* Fleck **A510**(1990)731
Yen, S., *see* Chan **A510**(1990)713
Ye Yanlin , *see* Hutcheon **A503**(1989)649
Yokoyama, A., *see* Nagame **A510**(1990)518
Yoshida, H., *see* Yasue **A509**(1990)141
Yoshida, H., *see* Yasue **A510**(1990)285
Yoshida, M., *see* Sakamoto **A501**(1989)693
Yoshida, N., H. Sagawa, T. Otsuka, A. Arima, Signature property of odd-A nuclei in the interacting boson-fermion model **A503**(1989) 90
Yoshida, S., *see* Takahashi **A507**(1990)371
Yoshiki, H., *see* Golub **A501**(1989)869
Yoshinaga, N., Pair approximation and the OAI mapping in the deformed limit **A503**(1989) 65
Yosoi, M., *see* Ieiri **A504**(1989)477
Yuasa, K., *see* Nakayama **A507**(1990)515
Yuminov, O.A., *see* Platonov **A503**(1989)461
Yurov, V.P., *see* Kalashnikova **A508**(1990)239c
Zagromski, S., *see* Heide **A504**(1989)374
Zech, E., *see* Hinfurtner **A504**(1989)467
Zech, E., *see* Hinfurtner **A509**(1990)541
Zeidman, B., *see* Freedman **A508**(1990)455c
Zelevinsky, V.G., *see* Sokolov **A504**(1989)562
Zell, K.O., *see* Andrejtscheff **A505**(1989)397
Zhang, W.-M., D.H. Feng, C.-L. Wu, H. Wu, J.N. Ginocchio, Symmetry constrained Hartree-Fock-Bogoliubov theory with

applications to the fermion dynamical symmetry model **A505**(1989) 7
Zhang, X.-Z., *see* Jin **A506**(1990)655
Zhang, X.-Z., *see* Sa **A509**(1990)499
Zhang, Z.-Y., *see* Straub **A508**(1990)385c
Zheng, Y.-M., *see* Sa **A509**(1990)499
Zhong, C.-S., *see* Li **A509**(1990)757
Zhuo, Y.-Z., *see* Jin **A506**(1990)655
Ziegler, B., *see* Schelhaas **A506**(1990)307
Ziegler, M., *see* Ahmad **A508**(1990)317c
Zijderhand, F., *see* Endt **A510**(1990)209
Zilges, A., *see* Heil **A506**(1990)223
Zilges, A., C. Wesselborg, R.D. Heil, U. Kneissl, S. Lindenstruth, H.H. Pitz, U. Seemann, R. Stock, Observation of low-lying collective dipole transitions in the rare-earth nuclei ^{172,174,176}Yb **A507**(1990)399
Zilges, A., *see* Pitz **A509**(1990)587
Zipper, W., A. Dewald, W. Lieberz, R. Reinhardt, W. Dichter, F. Seiffert, P. von Brentano, Spin determination from side-feeding excitation function of the nucleus ^{128}Xe in the ^{125}Te(α, 2n$\bar{\gamma}$)^{128}Xe and ^{126}Te(α, 2nγ)^{128}Xe reactions **A504**(1989) 36
Zipper, W., *see* Glaesner **A509**(1990)331
Žofka, J., *see* Bandō **A501**(1989)900
Zombkovsky, S.M., *see* Abdullin **A506**(1990)471
Zombkovsky, S.M., *see* Blinov **A510**(1990)803
Zou, B., *see* Ching **A510**(1990)630
Zubanov, D., *see* Karataglidis **A501**(1989)108
Zurmühl, U., *see* Schelhaas **A506**(1990)307
Zwięgliński, B., *see* Marcinkowski **A510**(1990) 93
Zybert, L., J.B.A. England, G.M. Field, O. Karban, R. Zybert, M. Becha, C.N. Pinder, G.C. Morrison, M. Bentley, P. Fallon, R. Moktah, J.W. Roberts, J.F. Sharpey-Schafer, Deep proton-hole states in ^{147}Pr, ^{151}Pm and ^{155}Eu **A510**(1990)441
Zybert, R., *see* Zybert **A510**(1990)441
Żylicz, J., *see* Szerypo **A507**(1990)357

INSTRUCTIONS TO CONTRIBUTORS

1. Manuscripts should be submitted in ***duplicate***, clearly typed on ***one side*** of the paper only, with wide margins and double-line spacing. Original figures should be included; copies of the figures should accompany ***each*** copy of the manuscript. Half-tones should be avoided especially on instrumentation and line drawings.
2. The paper must have a short abstract in English. Experimental papers must have keywords, see below. Section and subsection headings should follow standard pattern in the journal, e.g.:

   2. Experimental method 2.2. THE NUCLEUS ^{69}Zn *2.1.1. Energy levels.*
3. Footnotes (as few and as short as possible) should be typed at the bottom of the page on which they occur. Do not mix footnotes and references.
4. References should be typed as follows:

   Reference to a paper

   1) P.M. Endt and C. van der Leun, Nucl. Phys. **A214** (1973) 1

   Reference to a book

   2) R. van Lieshout, A.H. Wapstra, R.A. Ricci and R.K. Girgis, in Alpha-, beta- and gamma-ray spectroscopy, ed. K. Siegbahn, vol. 1 (North-Holland, Amsterdam, 1965) p. 501

   Reference to conference proceedings

   3) E.C. Halbert, Proc. Int. Conf. on nuclear physics, Gatlinburg, 1966, ed. R.L. Becker, C.D. Goodman, P.H. Stelson and A. Zucker (Academic Press, New York, 1967) p. 531

   Reference to a laboratory report or preprint

   4) R.H. Bassel, R.M. Drisko and G.R. Satchler, Oak Ridge National Laboratory report ORNL-3240 (1969) p. 54

   All authors should be listed in full, except in the case of a large collaboration. No comments or remarks should be made in the references.
5. Equations should be ***carefully*** typed or ***clearly*** handwritten, leaving adequate space for the printer's annotations.
6. Tables, which must have a ***short*** heading, should be typed on separate sheets of paper.
7. All Greek letters should be underlined in red. The symbol for sum should ***not*** be underlined. Indicate all euclidean vectors by wavy underlining; do ***not*** use arrows.
8. Special attention should be paid to characters that can be easily misread, such as i (lower case), I (capital), l (ell), 1 (one), ′ (prime); o (lower case), O (capital), 0 (zero), $^{\circ}$ (degree); u, v (vee), ν (Greek nu), V (capital); × (multiplication sign), x, X; 2 (two), z, Z; p, P, ρ (Greek rho); etc.
9. Use the metric system of units and the abbreviations recommended by the SUN commission of the IUPAP, Physica **A93** (1978) 1. The correct abbreviations of some commonly abused units are: sr, fm, keV, mb. Units ***must*** be correctly abbreviated in the figures.

KEYWORD ABSTRACTS

Keywords are designed to tell a reader what results are reported in an article and what the authors have concluded from these results. They enable other users to retrieve references to your articles based on indexed subjects determined by the Keywords.

Keyword abstracts are coded into a bibliographic data base (Nuclear Structure Reference File) maintained at the National Nuclear Data Center, Brookhaven National Laboratory, Upton, New York 11973, USA. Four-monthly retrievals from this data base are periodically published in the Nuclear Data Sheets under the title "Recent References". Information from this data base is accessible via the RECON System to scientists in the US and Canada or may also be obtained by addressing a request to the National Nuclear Data Center.

While preparing keyword abstracts, authors should follow the conventions given in Nuclear Physics **68** (1965) 1.

NORTH-HOLLAND PERSONAL LIBRARY

Ellipsometry and Polarized Light
by R.M.A. AZZAM and N.M. BASHARA
1976 3rd repr. 1989
xviii + 530 pages
US $35.00/Dfl. 90.00
ISBN 0-444-87016-4

The Kind of Motion we Call Heat
A History of the Kinetic Theory of Gases in the 19th Century
by S.G. BRUSH

Book 1: Physics and the Atomists
1976 1st repr. 1986
xxxix + 300 pages
US $32.50/Dfl. 80.00
ISBN 0-444-87008-3

Book 2: Statistical Physics and Irreversible Processes
1976 1st repr. 1986
xxxix + 470 pages
US $35.00/Dfl. 90.00
ISBN 0-444-87009-1

Simulation of Liquids and Solids
Molecular Dynamics and Monte Carlo Methods in Statistical Mechanics
by G. CICCOTTI, D. FRENKEL and I.R. McDONALD
1987 xii + 482 pages
US $32.50/Dfl. 80.00
ISBN 0-444-87061-x

Diffraction Physics
Second Revised Edition
by J.M. COWLEY
1984 2nd repr. 1990
xiv + 430 pages
In preparation
ISBN 0-444-86925-5

Field Theory in Particle Physics
Volume 1
by B. DE WIT and J. SMITH
1986 xii + 490 pages
US $25.00/Dfl. 80.00
ISBN 0-444-86999-9

The Philosophy of Niels Bohr
The Framework of Complementarity
by H.J. FOLSE
1985 1st repr. 1988
x + 282 pages
US $30.00/Dfl. 75.00
ISBN 0-444-86938-7

Basic Plasma Physics
Selected Chapters from the Handbook of Plasma Physics, Volumes I and II
edited by A.A. GALEEV and R.N. SUDAN
1989 xxii + 564 pages
US $49.95/Dfl. 115.00
ISBN 0-444-88020-8

Thermodynamics
An Advanced Treatment for Chemists and Physicists
by E.A. GUGGENHEIM
1985 3rd repr. 1988
xxiv + 390 pages
US $30.00/Dfl. 75.00
ISBN 0-444-86951-4

Introduction to the Spectroscopy of Atoms
by P.H. HECKMANN and E. TRÄBERT
1989 x + 284 pages
US $39.95/Dfl. 110.00
ISBN 0-444-86949-2

Paul Ehrenfest
Volume 1: The Making of a Theoretical Physicist
by M.J. KLEIN
1985 2nd repr. 1989
xvi + 330 pages
US $30.00/Dfl. 75.00
ISBN 0-444-86948-4

Statistical Mechanics
by R. KUBO
1965 7th repr. 1988
xii + 426 pages
US $32.50/Dfl. 75.00
ISBN 0-444-87103-9

Quantum Mechanics
New Approaches to Selected Topics
by H.J. LIPKIN
1973 2nd repr. 1988
xvi + 466 pages
US $32.50/Dfl. 75.00
ISBN 0-444-87010-5

The Physics of Magnetic Recording
by C.D. MEE
1964. 2nd repr. 1986
xviii + 270 pages
US $32.50/Dfl. 75.00
ISBN 0-444-87043-1

Fluctuation Phenomena
edited by E.W. MONTROLL and J.L. LEBOWITZ
1976. 1st repr. (updated) 1987
viii + 390 pages
US $32.50/Dfl. 80.00
ISBN 0-444-87038-5

Leptons and Quarks
by L.B. OKUN
1984 1st repr. 1987
xiv + 362 pages
US $32.50/Dfl. 80.00
ISBN 0-444-86924-7

Solitons and Instantons
An Introduction to Solitons and Instantons in Quantum Field Theory
by R. RAJARAMAN
1982 2nd repr. 1989
viii + 410 pages
US $35.00/Dfl. 95.00
ISBN 0-444-87047-4

Excitons
Selected Chapters from the book "Excitons", volume 2 in the series Modern Problems in Condensed Matter Sciences
edited by E.I. RASHBA and M.D. STURGE
1987 x + 486 pages
US $36.00/Dfl. 100.00
ISBN 0-444-87052-0

Niels Bohr
His life and work as seen by his friends and colleagues
by S. ROZENTAL
1985 vi + 355 pages
US $32.50/Dfl. 80.00
ISBN 0-444-86977-8

Physics in the Making
Essays on Developments in 20th Century Physics
In Honour of H.B.G. Casimir on the Occasion of his 80th Birthday
edited by A. SARLEMIJN and M.J. SPARNAAY
1989 xvi + 362 pages
US $50.00/Dfl. 95.00
ISBN 0-444-88019-4

Stochastic Processes in Physics and Chemistry
by N.G. VAN KAMPEN
1983 2nd repr. 1985
xiv + 416 pages
US $32.50/Dfl. 80.00
ISBN 0-444-8650-7

US $ prices are valid only in the USA and Canada. In all other countries the Dutch Guilder price (Dfl.) is definitive. In New York State applicable sales tax should be added. All prices are subject to change without prior notice. Customers in the Netherlands, please add 6% BTW.

NORTH-HOLLAND
(Elsevier Science Publishers)
P.O. Box 103
1000 AC Amsterdam
The Netherlands

In the USA and Canada:
Elsevier Science Publishing Co. Inc.
P.O. Box 882, Madison Square Station
New York, NY 10159, USA

404/B/328

ISSN 0 375-9474

DECEMBER 1990

NUCLEAR PHYSICS

Journal devoted to the experimental and theoretical study of the fundamental constituents of matter and their interactions

Associate Editors: G. Baym, Urbana; R. Bock, Darmstadt; J. Bondorf, Copenhagen; B. Deutch, Aarhus; K. Dietrich, Munich; J.P. Elliott, Sussex; J.D. Garrett, Oak Ridge; V. Gillet, Saclay; C. Grégoire, GANIL; S.E. Koonin, Pasadena; L.G. Moretto, Berkeley; W. Nörenberg, Darmstadt; A. Richter, Darmstadt; D. Robson, Tallahassee; R.A. Sorensen, Carnegie-Mellon; T.A. Tombrello, Pasadena; D.H. Wilkinson, Sussex

Associate Editors for Intermediate Energy: G. Baym, Urbana; H. A. Bethe, Cornell; T. Ericson, CERN; J. Hüfner, Heidelberg; M. Johnson, Los Alamos; K. Nakai, KEK; H. Palevsky, Brookhaven; F. Scheck, Mainz; I. S. Shapiro, Moscow; C. Tzara, Saclay; E. Vogt, Vancouver; K. Yazaki, Tokyo

Supervisory Editor: G. E. BROWN ***Administrative Editor: P. D. Greaves***

MASTER INDEX

VOLUMES A511–A520

APRIL 1990–DECEMBER 1990

NORTH HOLLAND

NUPABL Index A511–A520

NOTE TO AUTHORS

Manuscripts for publication should be submitted to the Editorial Office at the following address: Nuclear Physics A, c/o NORDITA, Blegdamsvej 17, DK-2100 Copenhagen Ø, Denmark. Telephone: 31 42 25 40 (International: +45 31 42 25 40). Telex: 15216 nbi dk. FAX +45 31 38 81 29. Email: greaves@nbivax.nbi.dk. HEPnet: 22105::greaves. Contributions should be accompanied by a covering letter, indicating, in case of joint authorship, to whom further correspondence, proofs, etc. should be addressed. Authors should take care that their contributions are written in good English, French or German, "broken" English is not acceptable.

Manuscripts should be prepared in accordance with the **Instructions to Contributors** (see page 3 of cover). Experimental papers for Nuclear Physics A contain an index of **keywords** (see Nucl. Phys. **68** (1965) 1).

All papers are subject to refereeing. "Letter-type" contributions and unnecessarily long papers are unacceptable. Authors should make every effort to achieve the utmost concision compatible with clarity. They should make a careful survey of the literature to ensure that papers do not duplicate previous work and that relevant existing knowledge has been taken into account. It should be realised that the criteria for refereeing are very high. **At present about 50% of the papers submitted are immediately acceptable.**

The Editors and Publishers aim at the following **time schedule**: within one week of submission the Author should have received acknowledgement of receipt of his manuscript. Within two months (normally within one month) he should have had notification of acceptance or rejection, or a request for revision. After receipt of an acceptance card, he should receive proofs within six weeks. Finally, six weeks after returning the corrected proofs, the paper should be published. If this schedule is not adhered to, Authors are requested to notify the Editorial Office and/or the Publisher.

NUCLEAR PHYSICS A is published in weekly issues. 15 volumes (60 issues) have been announced for 1990. The subscription price for these volumes is Dfl. 7320.00 including postage and handling.

NUCLEAR PHYSICS B is published in weekly issues. 18 volumes (54 issues) have been announced for 1990. The subscription price for these volumes is Dfl. 8784.00 including postage and handling.

NUCLEAR PHYSICS B [FS] (Field Theory and Statistical Systems) will cease to be available under separate subscription. It continues to appear as an integral subsection of Nuclear Physics B.

The price for a combined subscription to *both* sections A and B is Dfl. 13,233.00 including postage and handling.

SUBSCRIPTIONS should be sent to the Publishers, Elsevier Science Publishers B.V., Journals Department, P.O. Box 211, 1000 AE Amsterdam, The Netherlands, or to any subscription-agent.

CLAIMS FOR ISSUES NOT RECEIVED should be made within three months of publication. If not, they cannot be honoured free of charge.

BOOKS FOR REVIEW on nuclear and particle physics should be sent to the Editorial Office of "Nuclear Physics".

© Elsevier Science Publishers B.V. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without the written permission of the publisher, Elsevier Science Publishers B.V., P.O. Box 103, 1000 AC Amsterdam, The Netherlands.

Special regulations for authors - Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. The transfer will ensure the widest possible dissemination of information.

Submission to this journal of an article entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by the third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S.351) pursuant to article 16b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Special regulations for readers in the USA - This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond the permitted Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US $2.25, also payable through the Center. (N.B. For review journals this fee is US $0.25 per copy per page.) This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products' liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein.

Published weekly **Printed in The Netherlands**

MASTER INDEX

VOLUMES A511–A520
APRIL 1990–DECEMBER 1990

MASTER INDEX

VOLUMES A511-A520

Abegg, R., *see* Alford **A514**(1990) 49
Abenante, V., *see* Nicolis **A520**(1990)153c
Åberg, S., Superdeformations - A theoretical overview **A520**(1990) 35c
Acquadro, J.C., *see* Liguori Neto **A512**(1990)333
Adler, L.A., *see* Nicolis **A520**(1990)153c
Adorno, A., *see* Barbera **A518**(1990)767
Adorno, A., *see* Barbera **A519**(1990)231c
Agnello, M., F. Iazzi, B. Minetti, L. Cugusi, M.P. Macciotta, A. Masoni, G. Puddu, S. Serci, M.T. Sergi, T. Bressani, S. Marcello, M. Morandin, Multiplicity and angular distribution of charged pions emitted following $\bar{n}$ annihilation on Fe at low energy **A516**(1990)662
Agodi, C., R. Alba, M. Baldo, G. Bellia, R. Coniglione, A. Del Zoppo, P. Finocchiaro, J. Liu, C. Maiolino, E. Migneco, P. Piattelli, A. Rapisarda, G. Russo, P. Sapienza, Angular momentum transfer and energy loss in the $^{32}S+^{60,64}Ni$ peripheral reactions at 160.5 MeV **A515**(1990)524
Aguiar, C.E., V.C. Barbosa, R. Donangelo, Thermal fluctuations in heavy-ion fusion reactions (II). Multidimensional models **A517**(1990)205
Ahmad, I., *see* Drigert **A515**(1990)466
Ahmad, I., *see* Fernandez **A517**(1990)386
Ahmad, I., *see* Janssens **A520**(1990) 75c
Ahmad, I., *see* Carpenter **A520**(1990)133c
Ahmad, I., *see* Khoo **A520**(1990)169c
Ahrens, J., *see* Rose **A514**(1990)621
Akaishi, Y., *see* Okabe **A514**(1990)613
Akovali, Y.A., *see* Henry **A520**(1990)115c
Alard, J.-P., *see* L'Hôte **A519**(1990)331c
Alba, R., *see* Agodi **A515**(1990)524
Alberico, W.M., T.W. Donnelly, A. Molinari, Pionic effects in quasielastic electron scattering **A512**(1990)541
Albrecht, R., *see* Plasil **A519**(1990)449c
Alderson, A., *see* Riley **A512**(1990)178
Alderson, A., *see* Gascon **A513**(1990)344
Alderson, A., *see* Cullen **A520**(1990)105c
Alderson, A., *see* Riley **A520**(1990)279c
Aléonard, M.M., *see* Busto **A513**(1990)291
Alexander, J.M., *see* Jacquet **A511**(1990)195
Alexandrou, C., T. Karapiperis, O. Morimatsu, Meson-meson scattering in the quark-string model **A518**(1990)723
Alford, W.P., R.L. Helmer, R. Abegg, A. Celler, D. Frekers, P. Green, O. Häusser, R. Henderson, K. Hicks, K.P. Jackson, R. Jeppesen, C.A. Miller, A. Trudel, M. Vetterli, S. Yen, R. Pourang, J. Watson, B.A. Brown, J. Engel, Gamow-Teller strength observed in the $^{48}Ti(n, p)^{48}Sc$ reaction: Implications for the double beta decay of ^{48}Ca **A514**(1990) 49
Alhassid, Y., B. Bush, Time-dependent shape fluctuations and the giant dipole resonance in hot nuclei: Realistic calculations **A514**(1990)434
Ali, I., *see* Riley **A512**(1990)178
Ali, I., *see* Cullen **A520**(1990)105c
Ali, I., *see* Riley **A520**(1990)279c
Al-Khalili, J.S., E.D. Cooper, An alternative non-relativistic optical potential parameterization for the proton-nucleus interaction **A513**(1990) 43
Al-Khalili, J.S., J.A. Tostevin, R.C. Johnson, Singlet channel coupling in deuteron elastic scattering at intermediate energies **A514**(1990)649
Alons, P.W.F., *see* Bent **A511**(1990)541
Altman, A., *see* Friedman **A514**(1990)601
Amelin, N.S., *see* Toneev **A519**(1990)463c
Andrejtscheff, W., L.K. Kostov, P. Petkov, S. Brant, V. Paar, V. Lopac, G. Boehm, J. Eberth, R. Wirowski, K.O. Zell, Electromagnetic properties of some odd-odd nuclei in the $A \approx 100$ region and IBFFM description of ^{106}Ag **A516**(1990)157
Andrews, H.R., *see* Pilotte **A514**(1990)545
Aniol, K.A., *see* Virtue **A517**(1990)509
Anne, R., *see* Mueller **A513**(1990) 1
Anne, R., *see* Bazin **A515**(1990)349
Anne, R., *see* Détraz **A519**(1990)529
Anni, R., Reflection in heavy ion elastic scattering **A519**(1990)115c
Aoki, N., H. Hyuga, Gluonic effects in color dielectric model (II). Effective quark mass and color dielectric function **A516**(1990)496
Arafa, W., *see* Martinez **A515**(1990)433
Aravantinos, A.E., *see* Xenoulis **A516**(1990)108
Ardouin, D., Z. Basrak, P. Schuck, A. Péghaire, F. Saint-Laurent, H.

Delagrange, H. Doubre, C. Grégoire, A. Kyanowski, W. Mittig, J. Péter, Y.P. Viyogi, J. Québert, C.K. Gelbke, W.G. Lynch, M. Maier, J. Pochodzalla, G. Bizard, F. Lefebvres, B. Tamain, B. Remaud, F. Sébille, Preequilibrium particles and mean-field effects from particle-particle correlations in heavy-ion collisions **A514**(1990)564
Arickx, F., J. Broeckhove, M.G. Vassanji, D.J. Rowe, Application of the symplectic model to the giant resonance states in ^{16}O and ^{40}Ca **A511**(1990) 49
Arima, A., *see* Sugita **A515**(1990) 77
Arima, A., *see* Tanaka **A518**(1990)229
Arnould, M., *see* Iliadis **A512**(1990)509
Arnould, M., *see* Seuthe **A514**(1990)471
Artukh, A.G., *see* Mueller **A513**(1990) 1
Asghar, M., *see* Martinez **A515**(1990)433
Ashktorab, K., S. Elitzur, J. Jänecke, S. Liran, N. Zeldes, Coulomb energies and the shell model **A517**(1990) 27
Assad, C., *see* Ernst **A518**(1990)658
Auble, R.L., *see* Korolija **A516**(1990)133
Audouard, P., *see* Martinez **A515**(1990)433
Auerbach, N., *see* L'Huillier **A519**(1990) 83c
Augerat, J., *see* L'Hôte **A519**(1990)331c
Averchenkov, V.A., M.I. Gorenstein, Post-freeze-out stage of multihadron processes **A511**(1990)407
Awes, T.C., *see* Plasil **A519**(1990)449c
Ayer, Z., *see* Warner **A516**(1990)416
Ayik, S., C. Grégoire, Transport theory of fluctuation phenomena in nuclear collisions **A513**(1990)187
Ayik, S., *see* Suraud **A519**(1990)171c
Äystö, J., P.P. Jauho, Z. Janas, A. Jokinen, J.M. Parmonen, H. Penttilä, P. Taskinen, R. Béraud, R. Duffait, A. Emsallem, J. Meyer, M. Meyer, N. Redon, M.E. Leino, K. Eskola, P. Dendooven, Collective structure of the neutron-rich nuclei, ^{110}Ru and ^{112}Ru **A515**(1990)365
Azaiez, F., *see* Henry **A520**(1990)115c
Azaiez, F., W.H. Kelly, W. Korten, M.A. Deleplanque, F.S. Stephens, R.M. Diamond, C.W. Beausang, J.A. Becker, E.A. Henry, J.E. Draper, M.J. Brinkman, S.W. Yates, A. Kuhnert, E. Rubel, Superdeformed bands in ^{194}Tl **A520**(1990)121c
Azaiez, F., *see* Becker **A520**(1990)187c
Azuma, R.E., *see* Görres **A517**(1990)329
Babinet, R., *see* L'Hôte **A519**(1990)331c
Backenstoss, G., *see* Steinacher **A517**(1990)413
Bäcklin, A., *see* Kotliński **A517**(1990)365
Bäcklin, A., *see* Kotliński **A519**(1990)646
Badalá, A., *see* Durand **A511**(1990)442
Badalá, A., *see* Barbera **A518**(1990)767
Badalá, A., *see* Barbera **A519**(1990)231c
Baeza, A., *see* Ferrero **A514**(1990)367
Bakkum, E.A., P. Decowski, K.A. Griffioen, R.J. Meijer, R. Kamermans, Incomplete fusion in the reaction ^{20}Ne+^{27}Al at 216, 294 and 384 MeV **A511**(1990)117
Baktash, C., *see* Nyberg **A511**(1990) 92
Baktash, C., *see* Carpenter **A513**(1990)125
Baktash, C., *see* Plasil **A519**(1990)449c
Baktash, C., *see* Kotliński **A519**(1990)646
Baktash, C., *see* Nicolis **A520**(1990)153c
Baktash, C., M.L. Halbert, D.C. Hensley, N.R. Johnson, I.Y. Lee, J.W. McConnell, F.K. McGowan, Study of spin-temperature effects using energy-ordered continuum gamma-ray spectroscopy technique **A520**(1990)555c
Baldin, A.A., Yu.K. Gavrilov, F.F. Guber, A.B. Kurepin, V.S. Pantuev, M.A. Prokhvatilov, V.I. Razin, A.I. Reshetin, S.N. Filippov, Subthreshold antiproton production in nucleon-nucleus and nucleus-nucleus collisions **A519**(1990)407c
Baldo, M., J. Cugnon, A. Lejeune, U. Lombardo, Superfluidity in neutron matter and nuclear matter with realistic interactions **A515**(1990)409
Baldo, M., *see* Agodi **A515**(1990)524
Baldo, M., L.S. Ferreira, Influence of NΔ and $\Delta\Delta$ channels on the saturation properties of nuclear matter **A516**(1990)589
Baldo, M., Equation of state of nuclear matter **A519**(1990)243c
Balestra, F., *see* Bendiscioli **A518**(1990)683
Ball, J.B., *see* Korolija **A516**(1990)133
Ballester, F., E. Casal, J.B.A. England, Study of low-lying states of ^{51}V, ^{50,52,53}Cr, ^{59}Co and ^{63}Cu nuclei by α-particle inelastic scattering **A513**(1990) 61
Balouka, D., *see* Zuber **A520**(1990)195c
Balster, G.J., *see* Rymuza **A517**(1990)159
Bandyopadhyay, D., C. Samanta, S.K. Samaddar, J.N. De, Thermostatic properties of finite and infinite nuclear systems **A511**(1990) 1
Bang, H., *see* Wirzba **A515**(1990)571
Baraffe, I., *see* Descouvemont **A514**(1990) 66
Barbera, R., *see* Durand **A511**(1990)442

Barbera, R., A. Badalá, A. Adorno, A. Bonasera, M. Di Toro, A. Palmeri, G.S. Pappalardo, G. Bizard, R. Bougault, D. Durand, A. Genoux-Lubain, J.L. Laville, F. Lefebvres, J.P. Patry, G.M. Jin, E. Rosato, Evidence of a two-source emission for light charged particles on coincidence with pions produced in $^{16}O + ^{27}Al$ collisions at 94 MeV/nucleon **A518**(1990)767
Barbera, R., A. Badalá, A. Adorno, A. Bonasera, M. Di Toro, A. Palmeri, G.S. Pappalardo, F. Riggi, G. Russo, G. Bizard, D. Durand, J.L. Laville, G.M. Jin, E. Rosato, Subthreshold production of pions in coincidence with light particles **A519**(1990)231c
Barbosa, V.C., *see* Aguiar **A517**(1990)205
Barette, J., *see* Braeunig **A519**(1990)631
Bark, R.A., *see* Fabricius **A511**(1990)345
Bark, R.A., G.D. Dracoulis, A.E. Stuchbery, Shape coexistence or particle alignment in the light osmium isotopes ^{171}Os, ^{172}Os and ^{173}Os **A514**(1990)503
Bark, R.A., *see* Baxter **A515**(1990)493
Barnes, C.A., *see* Görres **A517**(1990)329
Barranco, F., G.F. Bertsch, R.A. Broglia, E. Vigezzi, Large-amplitude motion in superfluid Fermi droplets **A512**(1990)253
Barranco, M., *see* Centelles **A519**(1990) 73c
Barreau, G., *see* Martinez **A515**(1990)433
Barrigon, J.M., *see* Ferrero **A514**(1990)367
Barz, H.W., B.L. Friman, J. Knoll, H. Schulz, Do strangelets survive? **A519**(1990)479c
Barz, H.W., B.L. Friman, J. Knoll, H. Schulz, Strangeness production in ultra-relativistic heavy-ion collisions: Flavour kinetics II **A519**(1990)831
Basrak, Z., *see* Ardouin **A514**(1990)564
Bastid, N., *see* L'Hôte **A519**(1990)331c
Batko, G., *see* Wolf **A517**(1990)615
Batko, G., *see* Cassing **A519**(1990)357c
Batusov, Yu.A., *see* Bendiscioli **A518**(1990)683
Bauer, E., *see* Hirsch **A516**(1990)304
Bauer, W., *see* Westfall **A519**(1990)141c
Baumann, A., *see* Rose **A514**(1990)621
Baur, G., L.G. Ferreira Filho, Coherent particle production at relativistic heavy-ion colliders including strong absorption effects **A518**(1990)786
Baxter, A.M., *see* Fabricius **A511**(1990)345
Baxter, A.M., A.P. Byrne, G.D. Dracoulis, R.A. Bark, F. Riess, A.E. Stuchbery, M.C. Kruse, A.R. Poletti, Spectroscopy of high-spin states of ^{206}Po **A515**(1990)493
Baxter, A.M., *see* Dracoulis **A520**(1990)353c
Baye, D., *see* Descouvemont **A517**(1990)143
Baym, G., Ultrarelativistic nucleus-nucleus collisions **A519**(1990)425c
Bazin, D., *see* Mueller **A513**(1990) 1
Bazin, D., D. Guerreau, R. Anne, D. Guillemaud-Mueller, A.C. Mueller, M.G. Saint-Laurent, Zero degree measurements of isotopic distributions in 44 MeV/u ^{86}Kr-induced reactions for the production of nuclei far from stability **A515**(1990)349
Bazin, D., *see* Détraz **A519**(1990)529
Beard, K.B., *see* Janssens **A520**(1990) 75c
Beard, K.B., *see* Carpenter **A520**(1990)133c
Beard, K.B., *see* Khoo **A520**(1990)169c
Bearden, I.G., *see* Fernandez **A517**(1990)386
Bearden, I.G., *see* Janssens **A520**(1990) 75c
Beausang, C.W., *see* Henry **A520**(1990)115c
Beausang, C.W., *see* Azaiez **A520**(1990)121c
Beausang, C.W., *see* Becker **A520**(1990)187c
Becchetti, F.D., *see* Warner **A516**(1990)416
Beck, F.A., *see* Zuber **A520**(1990)195c
Beck, R., *see* Springham **A517**(1990) 93
Becker, H.W., *see* Görres **A517**(1990)329
Becker, J.A., *see* Henry **A520**(1990)115c
Becker, J.A., *see* Azaiez **A520**(1990)121c
Becker, J.A., N. Roy, E.A. Henry, S.W. Yates, A. Kuhnert, J.E. Draper, W. Korten, C.W. Beausang, M.A. Deleplanque, R.M. Diamond, F.S. Stephens, W.H. Kelly, F. Azaiez, J.A. Cizewski, M.J. Brinkman, Level spin and moments of inertia in superdeformed nuclei near $A = 194$ **A520**(1990)187c
Beckmann, P., *see* Plasil **A519**(1990)449c
Beda, A.G., S.I. Burov, L.N. Bondarenko, G.V. Danilyan, P. Geltenbort, F. Gönnenwein, V.L. Kuznetsov, A.N. Martemyanov, Yu.A. Mostovoii, K. Schreckenbach, Parity-violating asymmetry in the resonance scattering of 7.646 MeV γ-rays from $^{56}Fe(\tilde{n}, \gamma_0)^{57}Fe$ by ^{205}Tl nuclei **A513**(1990) 53
Beene, J.R., *see* Nicolis **A520**(1990)153c
Beene, J.R., *see* Bertrand **A520**(1990)627c
Belkacem, M., *see* Suraud **A519**(1990)171c
Bellia, G., *see* Agodi **A515**(1990)524
Belozyorov, A.V., *see* Mueller **A513**(1990) 1
Bendiscioli, G., V. Filippini, A. Rotondi, P. Salvini, A. Venaglioni, S. Bossolasco, M.P. Bussa, L. Busso, L. Fava, L. Ferrero, A. Maggiora, D. Panzieri, G. Piragino, R. Piragino, F. Tosello,

Yu.A. Batusov, I.V. Falomkin, G.B. Pontecorvo, A.M. Rozhdestvensky, M.G. Sapozhnikov, V.I. Tretyak, C. Guaraldo, E.L. Rizzini, A. Haatuft, A. Halsteinslid, K. Myklebost, J.M. Olsen, F.O. Breivik, T. Jacobsen, S.O. Sørensen, F. Balestra, A. Zenoni, Pionic annihilation of antiprotons stopped on ^{3}He **A518**(1990)683
Benet, Ph., *see* Fernandez **A517**(1990)386
Benet, Ph., *see* Janssens **A520**(1990) 75c
Benet, Ph., *see* Carpenter **A520**(1990)133c
Benet, Ph., *see* Khoo **A520**(1990)169c
Bengtsson, R., *see* Carpenter **A513**(1990)125
Bengtsson, R., Perturbed and hidden bandcrossings: What can be done when the standard cranked shell model faces problems? **A520**(1990)201c
Bengtsson, T., The high-spin structure of ^{158}Er: A theoretical study **A512**(1990)124
Bengtsson, T., *see* Riley **A512**(1990)178
Bengtsson, T., *see* Carpenter **A513**(1990)125
Bengtsson, T., *see* Cullen **A520**(1990)105c
Bennhold, C., *see* So **A517**(1990)473
Bennhold, C., L. Tiator, The E0 transition in pion photoproduction and radiative pion capture on ^{13}C **A519**(1990)805
Bent, R.D., P.W.F. Alons, M. Dillig, Energy dependence of the ^{3}He(p, π^{+})^{4}He and ^{3}H(n, π^{-})^{4}He reactions **A511**(1990)541
Bentley, M.A., *see* Riley **A512**(1990)178
Bentley, M.A., *see* Gascon **A513**(1990)344
Bentley, M.A., *see* Cullen **A520**(1990)105c
Bentley, M.A., *see* Riley **A520**(1990)279c
Bentley, M.A., *see* Sletten **A520**(1990)325c
Bentz, W., *see* Tanaka **A518**(1990)229
Berat, C., *see* Braeunig **A519**(1990)631
Béraud, R., *see* Äystö **A515**(1990)365
Berenguer, M., *see* Neise **A519**(1990)375c
Berger, F., *see* Plasil **A519**(1990)449c
Bergström, M., *see* Yu **A511**(1990)157
Berland, K.M., *see* Warner **A516**(1990)416
Bernabeu, J., Neutral currents in atomic and nuclear physics **A518**(1990)317
Berrier-Ronsin, G., *see* Vergnes **A514**(1990)381
Berthier, B., *see* Braeunig **A519**(1990)631
Bertini, R., *see* Chivassa **A519**(1990)413c
Bertrand, F.E., J.R. Beene, Excitation and photon decay of giant multipole resonances **A520**(1990)627c
Bertsch, G.F., *see* Barranco **A512**(1990)253
Bertsch, G.F., Dipole excitations on the neutron drip line **A520**(1990)607c
Bertulani, C.A., *see* Vasconcellos Gomes **A517**(1990)639
Bildsten, L., I. Wasserman, E.E. Salpeter, A semi-classical model for breakup reactions of light nuclei: ^{4}He(p, pn)^{3}He **A516**(1990) 77
Bilwes, B., *see* Ferrero **A514**(1990)367
Bilwes, R., *see* Ferrero **A514**(1990)367
Bingham, C.R., *see* Nyberg **A511**(1990) 92
Bingham, C.R., *see* Carpenter **A513**(1990)125
Birkental, U., *see* Murzel **A516**(1990)189
Biró, T.S., *see* Kalmbach **A513**(1990)621
Bizard, G., *see* Durand **A511**(1990)442
Bizard, G., *see* Ardouin **A514**(1990)564
Bizard, G., *see* El Masri **A517**(1990)340
Bizard, G., *see* Barbera **A518**(1990)767
Bizard, G., *see* Péter **A519**(1990)127c
Bizard, G., *see* Barbera **A519**(1990)231c
Bizard, G., *see* Péter **A519**(1990)611
Blankleider, B., *see* Nozawa **A513**(1990)459
Blasi, N., S. Micheletti, M. Pignanelli, R. De Leo, R. Hertenberger, F.J. Eckle, H. Kader, P. Schiemenz, G. Graw, Study of ^{112}Cd via the ^{113}Cd($\vec{d}$, t) reaction **A511**(1990)251
Blasi, N., *see* Pignanelli **A519**(1990)567
Bläsing, C., *see* Degener **A513**(1990) 29
Blättel, B., *see* Weber **A515**(1990)747
Blättel, B., *see* Cassing **A519**(1990)357c
Blok, H.P., *see* Hogenbirk **A516**(1990)205
Blomgren, J., *see* Håkansson **A512**(1990)399
Blomqvist, J., *see* Rydström **A512**(1990)217
Blomqvist, J., *see* Pomar **A515**(1990)381
Blume, K.P., *see* Murzel **A516**(1990)189
Blumenfeld, Y., *see* Moretto **A519**(1990)183c
Bochev, B., T. Kutsarova, R.M. Lieder, Study of ^{4}He induced reactions at 11.2–27.5 MeV/A with charged particle-γ-ray coincidences **A518**(1990)401
Bock, R., *see* Plasil **A519**(1990)449c
Bocquet, J.P., *see* Martinez **A515**(1990)433
Bodek, K., *see* Ricken **A515**(1990)226
Boehm, G., *see* Andrejtscheff **A516**(1990)157
Boffi, S., C. Giusti, F.D. Pacati, M. Radici, Nucleon recoil polarization in electromagnetic quasi-free knockout including two-body currents **A518**(1990)639
Bohigas, O., *see* Stringari **A516**(1990) 33
Bohlen, H.G., *see* Braeunig **A519**(1990)631
Böhm, G., P. von Brentano, A. Dewald, H. Paetz Gen. Schieck, G. Rauprich, R. Reckenfelderbäumer, L. Sydow, R. Wirowski, A test of parity conservation in the reaction ^{27}Al($\vec{p}$, α)^{24}Mg in the regime of Ericson fluctuations **A518**(1990) 58
Bolotin, H.H., *see* Stuchbery **A516**(1990)119
Bonasera, A., *see* Barbera **A518**(1990)767

Bonasera, A., M. Cacinato, M. Colonna, M. Di Toro, F. Gulminelli, G. Russo, H.H. Wolter, Microscopic description of heavy ion collisions **A519**(1990)211c
Bonasera, A., *see* Barbera **A519**(1990)231c
Bonche, P., *see* Krieger **A517**(1990)275
Bonche, P., J. Dobaczewski, H. Flocard, P.H. Heenen, S.J. Krieger, J. Meyer, M.S. Weiss, Quadrupole collective correlations and the depopulation of the superdeformed bands in mercury **A519**(1990)509
Bondarenko, L.N., *see* Beda **A513**(1990) 53
Booten, J.G.L., *see* Kikstra **A512**(1990)425
Borderie, B., *see* Jacquet **A511**(1990)195
Borderie, B., *see* El Masri **A517**(1990)340
Borge, M.J.G., H. Gabelmann, L. Johannsen, B. Jonson, G. Nyman, K. Riisager, O. Tengblad, The decay of ^{31}Ar **A515**(1990) 21
Borggreen, J., *see* Drigert **A515**(1990)466
Borghols, W.T.A., S. Brandenburg, J.H. Meier, J.M. Schippers, M.M. Sharma, A. van der Woude, M.N. Harakeh, A. Lindholm, L. Nilsson, S. Crona, A. Håkansson, L.P. Ekström, N. Olsson, R. De Leo, Neutron decay of the giant resonance region in ^{124}Sn and especially of the giant monopole resonance **A515**(1990)173
Börner, H.G., *see* Hoyler **A512**(1990)189
Börner, H.G., *see* Kaerts **A514**(1990)173
Borrel, V., *see* Détraz **A519**(1990)529
Bortignon, P.F., *see* Ormand **A519**(1990) 61c
Bortignon, P.F., *see* Ormand **A520**(1990)595c
Bossolasco, S., *see* Bendiscioli **A518**(1990)683
Bougault, R., *see* Durand **A511**(1990)442
Bougault, R., *see* Barbera **A518**(1990)767
Bowman, D.R., *see* Charity **A511**(1990) 59
Boyd, R.N., *see* Rath **A515**(1990)338
Bracci, L., G. Fiorentini, V.S. Melezhik, G. Mezzorani, P. Quarati, Atomic effects in the determination of nuclear cross sections of astrophysical interest **A513**(1990)316
Bracco, A., F. Camera, J.J. Gaardhøje, B. Herskind, M. Pignanelli, The giant dipole resonance at high excitation energies **A519**(1990) 47c
Bracco, A., *see* Ormand **A520**(1990)595c
Brack, M., *see* Nayak **A516**(1990) 62
Braeunig, M., W. von Oertzen, H.G. Bohlen, A. Miczaika, E. Stiliaris, M. Buenerd, C. Berat, J. Chauvin, D. Lebrun, J.Y. Hostachy, Ph. Martin, W. Mittig, J. Barette, B. Berthier, B. Fernandez, Proton stripping induced by ^{13}C at 50 MeV/nucleon on ^{12}C, ^{40}Ca and ^{58}Ni **A519**(1990)631
Brand, M.G.E., *see* Hogenbirk **A516**(1990)205
Brandenburg, S., *see* Borghols **A515**(1990)173
Branford, D., *see* Springham **A517**(1990) 93
Branford, D., *see* So **A517**(1990)473
Brant, S., *see* Andrejtscheff **A516**(1990)157
Bratkovskaya, E.L., *see* Kaptari **A512**(1990)684
Bräuer, K., A. Drago, A. Faessler, Baryons and a nucleon-nucleon potential in a colour-dielectric quark model with plain gluons **A511**(1990)558
Braun, M.A., The Glauber formula for AA collisions and the phase transition for large *A* **A513**(1990)705
Breivik, F.O., *see* Bendiscioli **A518**(1990)683
Brenner, D.S., *see* Casten **A514**(1990)252
Brenner, D.S., *see* Zhang **A520**(1990)251c
Bressani, T., *see* Agnello **A516**(1990)662
Bricault, P., *see* Mueller **A513**(1990) 1
Bricault, P., *see* Détraz **A519**(1990)529
Brink, D.M., *see* Yoshinaga **A515**(1990) 1
Brink, D.M., The compound nucleus at high excitation energy **A519**(1990) 3c
Brinkman, M.J., *see* Henry **A520**(1990)115c
Brinkman, M.J., *see* Azaiez **A520**(1990)121c
Brinkman, M.J., *see* Becker **A520**(1990)187c
Brissot, R., *see* Martinez **A515**(1990)433
Brochard, F., *see* L'Hôte **A519**(1990)331c
Broda, R., *see* Wrzesiński **A515**(1990)297
Broeckhove, J., *see* Arickx **A511**(1990) 49
Broglia, R.A., *see* Barranco **A512**(1990)253
Broglia, R.A., *see* Shimizu **A515**(1990) 38
Broglia, R.A., *see* Ormand **A519**(1990) 61c
Broglia, R.A., *see* Vigezzi **A520**(1990)179c
Broglia, R.A., *see* Ormand **A520**(1990)595c
Broniowski, W., *see* Kutschera **A516**(1990)566
Brou, R., *see* El Masri **A517**(1990)340
Brou, R., *see* Péter **A519**(1990)127c
Brou, R., *see* Péter **A519**(1990)611
Brown, B.A., *see* Alford **A514**(1990) 49
Brown, G.E., The Ericson-Ericson Lorentz-Lorenz correction **A518**(1990) 99
Bruandet, J.F., *see* El Masri **A517**(1990)340
Bruce, A.M., *see* Riley **A512**(1990)178
Bruce, A.M., *see* Hoyler **A512**(1990)189
Bruce, A.M., *see* Cullen **A520**(1990)105c
Bruce, A.M., *see* Riley **A520**(1990)279c
Bruce, A.M., *see* Sletten **A520**(1990)325c
Bruder, A., *see* Kern **A512**(1990) 1
Buballa, M., A. Gattone, R. de Haro, R. Jessenberger, S. Krewald, Decay of the giant dipole and quadrupole resonances in ^{16}O **A517**(1990) 61
Büchle, R., J. Franz, P. Koncz, M. Marx, E. Rössle, C. Sauerwein, H. Schmitt, K. Schmoll, J. Erö,

Z. Fodor, J. Kecskeméti, Zs. Kovács, Z. Seres, Neutron-induced pion production on carbon, copper and bismuth at intermediate energies **A515**(1990)541
Buck, B., A.C. Merchant, S.M. Perez, Can we obtain nuclear structure information from exotic decays of heavy nuclei? **A512**(1990)483
Buck, B., P.D.B. Hopkins, A.C. Merchant, A $^{12}C+^{12}C$ cluster model of ^{24}Mg **A513**(1990) 75
Buck, B., *see* Kabir **A518**(1990)449
Buénerd, M., Charge exchange reactions to giant resonances **A519**(1990) 31c
Buenerd, M., *see* Braeunig **A519**(1990)631
Burichenko, A.P., I.B. Khriplovich, Circular polarization of γ-quanta in the reaction $np \to d\gamma$ with polarized neutrons **A515**(1990)139
Burke, D.G., G. Kajrys, Single-nucleon-transfer tests of the U(6/12) supersymmetry in platinum isotopes **A517**(1990) 1
Burns, D.T., *see* Kellie **A515**(1990)125
Burov, S.I., *see* Beda **A513**(1990) 53
Bush, B., *see* Alhassid **A514**(1990)434
Bussa, M.P., *see* Bendiscioli **A518**(1990)683
Busso, L., *see* Bendiscioli **A518**(1990)683
Busto, J., D. Dassié, O. Helene, Ph. Hubert, P. Larrieu, F. Leccia, P. Mennrath, M.M. Aléonard, J. Chevallier, The $0^+ \to 2^+$ neutrinoless double beta decay of ^{76}Ge: Results of the Frejus experiment **A513**(1990)291
Butler, P.A., *see* Hughes **A512**(1990)275
Byrne, A.P., *see* Baxter **A515**(1990)493
Byrne, A.P., R. Müsseler, H. Hübel, K.H. Maier, H. Kluge, Quadrupole moments of isomeric states in ^{213}Fr and ^{212}Fr **A516**(1990)145
Byrne, A.P., *see* Dracoulis **A520**(1990)353c
Byrski, Th., *see* Zuber **A520**(1990)195c
Cacinato, M., *see* Bonasera **A519**(1990)211c
Camera, F., *see* Bracco **A519**(1990) 47c
Camerini, P., *see* Rui **A517**(1990)455
Canosa, N., R. Rossignoli, A. Plastino, Maximum entropy principle for many-body ground states **A512**(1990)492
Čaplar, R., *see* Korolija **A516**(1990)133
Carbonell, J., *see* Mandrup **A512**(1990)591
Carlén, L., *see* Yu **A511**(1990)157
Carlin Filho, N., *see* Liguori Neto **A512**(1990)333
Carpenter, M., *see* Zhang **A520**(1990)251c
Carpenter, M.C., *see* Gascon **A513**(1990)344
Carpenter, M.P., *see* Nyberg **A511**(1990) 92
Carpenter, M.P., C.R. Bingham, L.H. Courtney, V.P. Janzen, A.J. Larabee, Z.-M. Liu, L.L. Riedinger, W. Schmitz, R. Bengtsson, T. Bengtsson, W. Nazarewicz, J.-Y. Zhang, J.K. Johansson, D.G. Popescu, J.C. Waddington, C. Baktash, M.L. Halbert, N.R. Johnson, I.Y. Lee, Y.S. Schutz, J. Nyberg, A. Johnson, R. Wyss, J. Dubuc, G. Kajrys, S. Monaro, S. Pilotte, K. Honkanen, D.G. Sarantites, D.R. Haenni, Alignment processes and shape variations in ^{184}Pt **A513**(1990)125
Carpenter, M.P., *see* Fernandez **A517**(1990)386
Carpenter, M.P., *see* Janssens **A520**(1990) 75c
Carpenter, M.P., D. Ye, R.V.F. Janssens, T.L. Khoo, I. Ahmad, K.B. Beard, Ph. Benet, J.A. Cizewski, M.W. Drigert, P. Fernandez, U. Garg, E.F. Moore, F.L.H. Wolfs, Evidence of time delay in the decay of the superdeformed bands of $^{191,192}Hg$ **A520**(1990)133c
Carpenter, M.P., *see* Khoo **A520**(1990)169c
Carter, J., *see* Von Neumann-Cosel **A516**(1990)385
Casal, E., *see* Ballester **A513**(1990) 61
Cassagnou, Y., *see* Péter **A519**(1990)127c
Cassagnou, Y., *see* Pollacco **A519**(1990)197c
Cassagnou, Y., *see* Péter **A519**(1990)611
Cassing, W., *see* Weber **A515**(1990)747
Cassing, W., *see* Wolf **A517**(1990)615
Cassing, W., G. Batko, B. Blättel, V. Koch, A. Lang, U. Mosel, K. Niita, K. Weber, Gy. Wolf, Dynamics of heavy-ion reactions and the nuclear equation of state **A519**(1990)357c
Castel, B., H. Toki, Pion scattering and nuclear surface effects **A514**(1990)682
Casten, R.F., *see* Hoyler **A512**(1990)189
Casten, R.F., *see* Kaerts **A514**(1990)173
Casten, R.F., J. Yan, R. Wirowski, A. Gelberg, P. von Brentano, D.S. Brenner, Simplified shell model calculations for valence mirror nuclei **A514**(1990)252
Casten, R.F., *see* Zhang **A520**(1990)251c
Cavallaro, Sl., M.L. Sperduto, B. Delaunay, J. Delaunay, A. D'Onofrio, H. Dumont, Sub-barrier fusion induced by ^{35}Cl and ^{37}Cl beams on $^{24,25,26}Mg$ isotopes **A513**(1990)174
Cavata, C., *see* L'Hôte **A519**(1990)331c
Cebra, D.A., *see* Westfall **A519**(1990)141c
Celler, A., *see* Alford **A514**(1990) 49
Centelles, M., X. Viñas, M. Barranco, P. Schuck, On the relativistic extended Thomas–Fermi method **A519**(1990) 73c
Centenaro, E., V.R. Manfredi, Quasi-crossing localization in the three-level LMG model **A519**(1990)109c

Champagne, A.E., P.V. Magnus, M.S. Smith, A.J. Howard, Proton-threshold states in ^{27}Al and the production of ^{27}Al at low stellar temperatures **A512**(1990)317
Champagne, A.E., *see* Iliadis **A512**(1990)509
Chanfray, G., P. Schuck, W. Nörenberg, In medium corrected pion-pion correlations and the nuclear equation of state **A519**(1990)311c
Chao, W.-Q., C.-S. Gao, Y.-L. Zhu, Increase of the K^+/π^+ ratio induced by secondary collisions in relativistic heavy-ion collisions **A514**(1990)734
Chapline, G.F., A. Granik, Production of quark matter via a conical shock wave **A511**(1990)747
Chapman, R., *see* Yu **A511**(1990)157
Chapman, R., *see* Riley **A520**(1990)279c
Chapman, R., *see* Lisle **A520**(1990)451c
Charity, R.J., K.X. Jing, D.R. Bowman, M.A. McMahan, G.J. Wozniak, L.G. Moretto, N. Colonna, G. Guarino, A. Pantaleo, L. Fiore, A. Gobbi, K.D. Hildenbrand, Sources of complex fragment emission in lanthanum-induced reactions at $E/A = 14.7$ and 18.0 MeV **A511**(1990) 59
Charity, R.J., *see* Moretto **A519**(1990)183c
Charmensat, P., *see* L'Hôte **A519**(1990)331c
Chasman, R.R., *see* Drigert **A515**(1990)466
Chasman, R.R., *see* Khoo **A520**(1990)169c
Chaudhuri, A.K., Geometric model description of multiplicity distributions in limited pseudorapidity intervals for nucleus-nucleus collision **A515**(1990)736
Chauvin, J., *see* Braeunig **A519**(1990)631
Chen, J.-Q., *see* Hecht **A512**(1990)365
Chen, X.Y., *see* Lisantti **A511**(1990)643
Chevallier, J., *see* Busto **A513**(1990)291
Ching, C., T. Ho, B. Zou, Contribution of highly excited intermediate states in the pion absorption-emission mechanism of double charge exchange **A513**(1990)697
Chishti, A.A., *see* Skeppstedt **A511**(1990)137
Chivassa, E., G. Dellacasa, N. De Marco, F. Ferrero, A. Musso, A. Piccotti, E. Scomparin, E. Vercellin, M. Gallio, R. Bertini, J.M. Durand, Preliminary results of η production by proton at $T_p \leq$ 1 GeV **A519**(1990)413c
Chmielewska, D., *see* Rymuza **A517**(1990)159
Christmann, D., *see* Rose **A514**(1990)621
Chu, K.C., *see* Wong **A515**(1990)686
Chugunov, I.N., *see* Rotter **A514**(1990)401
Chung, H.S., W.D. Myers, The charge and mass dependence of nuclear interaction cross sections **A513**(1990)283
Cindro, N., *see* Korolija **A516**(1990)133
Cizewski, J.A., *see* Henry **A520**(1990)115c
Cizewski, J.A., *see* Carpenter **A520**(1990)133c
Cizewski, J.A., *see* Becker **A520**(1990)187c
Claesson, G., *see* Plasil **A519**(1990)449c
Clarke, D., *see* Yu **A511**(1990)157
Clarke, D., *see* Hildingsson **A513**(1990)394
Clarke, D., *see* Lisle **A520**(1990)451c
Clauberg, A., *see* Wrzesiński **A515**(1990)297
Clewing, G., *see* Plasil **A519**(1990)449c
Cline, D., *see* Kotliński **A517**(1990)365
Cline, D., *see* Kotliński **A519**(1990)646
Cline, D., Pairing correlations and two-nuclean transfer between heavy nuclei **A520**(1990)493c
Coester, F., *see* Oelfke **A518**(1990)593
Coimbra, M.M., *see* Liguori Neto **A512**(1990)333
Colonna, M., *see* Bonasera **A519**(1990)211c
Colonna, N., *see* Charity **A511**(1990) 59
Colvin, G.G., *see* Hoyler **A512**(1990)189
Coniglione, R., *see* Agodi **A515**(1990)524
Cooke, L., *see* Utsunomiya **A511**(1990)379
Cooper, E.D., *see* Al-Khalili **A513**(1990) 43
Cooper, E.D., *see* Maxwell **A513**(1990)584
Cooper, S.G., R.S. Mackintosh, Nucleon wavefunctions for elastic scattering in the presence of dynamically induced non-locality **A511**(1990) 29
Cooper, S.G., R.S. Mackintosh, The O+Pb interaction near the Coulomb barrier **A513**(1990)373
Cooper, S.G., R.S. Mackintosh, *S*-matrix to potential inversion of low-energy α-^{12}C phase shifts **A517**(1990)285
Courtney, L.H., *see* Nyberg **A511**(1990) 92
Courtney, L.H., *see* Carpenter **A513**(1990)125
Crawford, G.I., *see* Kellie **A515**(1990)125
Crawford, J.E., *see* Savard **A512**(1990)241
Crawley, G., *see* Etchegoyen **A518**(1990)572
Crema, E., *see* Liguori Neto **A512**(1990)333
Crema, E., *see* Péter **A519**(1990)127c
Crema, E., *see* Péter **A519**(1990)611
Crona, S., *see* Borghols **A515**(1990)173
Cronqvist, M., *see* Westfall **A519**(1990)141c
Csörgő, T., J. Zimányi, Pion interferometry for strongly correlated spacetime and momentum space **A517**(1990)588
Cubero, M., M. Schönhofen, B.L. Friman, W. Nörenberg, Relaxation processes in intermediate-energy heavy-ion collisions **A519**(1990)345c
Cugnon, J., P. Deneye, J. Vandermeulen, Hypernucleus formation after antiproton annihilation on nuclei **A513**(1990)636
Cugnon, J., *see* Baldo **A515**(1990)409

Cugnon, J., P. Deneye, J. Vandermeulen, Antiproton annihilation at rest on light nuclei: Rescattering, strange-particle yield and $B = 1$ annihilation **A517**(1990)533
Cugusi, L., *see* Agnello **A516**(1990)662
Cullen, D.M., *see* Riley **A512**(1990)178
Cullen, D.M., M.A. Riley, A. Alderson, I. Ali, T. Bengtsson, M.A. Bentley, A.M. Bruce, P. Fallon, P.D. Forsyth, F. Hanna, S.M. Mullins, W. Nazarewicz, R. Poynter, P. Regan, J.W. Roberts, W. Satuła, J.F. Sharpey-Schafer, J. Simpson, G. Sletten, P.J. Twin, R. Wadsworth, R. Wyss, Evidence for octupole softness of the superdeformed shape from band interactions in ^{193,194}Hg **A520**(1990)105c
Cullen, D.M., *see* Riley **A520**(1990)279c
Cullen, D.M., *see* Sletten **A520**(1990)325c
Cunningham, R.A., *see* Smithson **A517**(1990)193
Curien, D., *see* Zuber **A520**(1990)195c
Curran, A.R., *see* Kellie **A515**(1990)125
Cussol, D., *see* Péter **A519**(1990)127c
Cussol, D., *see* Péter **A519**(1990)611
Czosnyka, T., *see* Kotliński **A519**(1990)646
Dai, N., *see* Yao **A519**(1990)602
Daly, P.J., *see* Drigert **A515**(1990)466
Daly, P.J., *see* Fernandez **A517**(1990)386
Daly, P.J., *see* Janssens **A520**(1990) 75c
Daly, P.J., *see* Khoo **A520**(1990)169c
Daniel, H., *see* Hofmann **A512**(1990)669
Danilyan, G.V., *see* Beda **A513**(1990) 53
Da Providência, J., *see* Yamamura **A514**(1990)461
Da Providência, J., C. Fiolhais, A note on thermal bosons **A516**(1990) 53
Darden, S.E., *see* Warner **A516**(1990)416
Dassié, D., *see* Busto **A513**(1990)291
Dasso, C.H., P. Lotti, A. Vitturi, Interplay between ordinary- and gauge-space deformations in heavy-ion collisions: A study for the Pb + Dy system **A514**(1990)161
David, P., *see* Taal **A511**(1990)573
Davidson, P.M., *see* Dracoulis **A520**(1990)353c
Davinson, T., *see* Springham **A517**(1990) 93
Dayras, R., *see* Pollacco **A519**(1990)197c
De, J.N., *see* Bandyopadhyay **A511**(1990) 1
De Boer, J., *see* Hughes **A512**(1990)275
Decker, R., M. Nowakowski, J. Stahov, The magnetic moments of baryons and the spin of the proton **A512**(1990)626
Decowski, P., *see* Bakkum **A511**(1990)117
Degener, A., C. Bläsing, R.D. Heil, A. Jung, U. Kneissl, H.H. Pitz, H. Schacht, S. Schennach, R. Stock, C. Wesselborg, Dipole excitations in ^{48}TI studied by nuclear resonance fluorescence **A513**(1990) 29
Dehaes, J.C., *see* Hoyler **A512**(1990)189
De Haro, R., *see* Buballa **A517**(1990) 61
Dehnhard, D., *see* Ohnuma **A514**(1990)273
Dejbakhsh, H., *see* Utsunomiya **A511**(1990)379
De Laat, C.T.A.M., *see* Taal **A511**(1990)573
De Laat, C.T.A.M., *see* Konijn **A519**(1990)773
Delagrange, H., *see* Ardouin **A514**(1990)564
Delaunay, B., *see* Cavallaro **A513**(1990)174
Delaunay, J., *see* Cavallaro **A513**(1990)174
De Leo, R., *see* Blasi **A511**(1990)251
De Leo, R., *see* Borghols **A515**(1990)173
De Leo, R., *see* Pignanelli **A519**(1990)567
Deleplanque, M.A., *see* Kotliński **A517**(1990)365
Deleplanque, M.A., *see* Henry **A520**(1990)115c
Deleplanque, M.A., *see* Azaiez **A520**(1990)121c
Deleplanque, M.A., *see* Becker **A520**(1990)187c
Délèze, M., *see* Salicio **A512**(1990)109
Delion, D.S., *see* Răduţă **A513**(1990) 11
Dellacasa, G., *see* Chivassa **A519**(1990)413c
Del Zoppo, A., *see* Agodi **A515**(1990)524
De Marco, N., *see* Chivassa **A519**(1990)413c
Demoulins, M., *see* L'Hôte **A519**(1990)331c
Dendooven, P., *see* Äystö **A515**(1990)365
Deneye, P., *see* Cugnon **A513**(1990)636
Deneye, P., *see* Cugnon **A517**(1990)533
Descouvemont, P., I. Baraffe, Microscopic cluster study of the ^{12}B and ^{12}N systems and application to a hot pp chain in zero-metal stars **A514**(1990) 66
Descouvemont, P., D. Baye, The ^{20}F and ^{20}Na nuclei and the ^{19}Ne(p, γ)^{20}Na reaction in a microscopic three-cluster model **A517**(1990)143
De Swart, J.J., *see* Stoks **A514**(1990)309
Détraz, C., *see* Mueller **A513**(1990) 1
Détraz, C., R. Anne, P. Bricault, D. Guillemaud-Mueller, M. Lewitowicz, A.C. Mueller, Y.H. Zhang, V. Borrel, J.C. Jacmart, F. Pougheon, A. Richard, D. Bazin, J.P. Dufour, A. Fleury, F. Hubert, M.S. Pravikoff, Search for direct two-proton radioactivity from Ti isotopes at the proton drip line **A519**(1990)529
Deutsch, J., M. Lebrun, R. Prieels, Searches for admixture of massive neutrinos into the electron flavour **A518**(1990)149
Dewald, A., *see* Wrzesiński **A515**(1990)297
Dewald, A., *see* Böhm **A518**(1990) 58
Diamond, R.M., *see* Kotliński **A517**(1990)365
Diamond, R.M., *see* Henry **A520**(1990)115c
Diamond, R.M., *see* Azaiez **A520**(1990)121c
Diamond, R.M., *see* Becker **A520**(1990)187c
Dichter, B.K., *see* Drigert **A515**(1990)466
Dietzsch, O., *see* Takagui **A514**(1990)120
Dillig, M., *see* Bent **A511**(1990)541
Dillig, M., *see* Jäkel **A511**(1990)733
Dilmanian, F.A., *see* Nicolis **A520**(1990)153c
Di Toro, M., *see* Barbera **A518**(1990)767

Di Toro, M., *see* Bonasera **A519**(1990)211c
Di Toro, M., *see* Barbera **A519**(1990)231c
Djalali, C., *see* Etchegoyen **A518**(1990)572
Doan, T.P., *see* Martinez **A515**(1990)433
Dobaczewski, J., *see* Bonche **A519**(1990)509
Doi, M., T. Sato, H. Ohtsubo, M. Morita, Effect of meson exchange current on deuteron muon capture **A511**(1990)507
Doll, P., *see* Fink **A518**(1990)561
Donangelo, R., *see* Aguiar **A517**(1990)205
Dönau, F., Restoration of rotational symmetry by using three-dimensional cranking **A517**(1990)125
Dönau, F., Dynamics of collective motion **A520**(1990)437c
Donnelly, T.W., *see* Alberico **A512**(1990)541
D'Onofrio, A., *see* Cavallaro **A513**(1990)174
Döring, J., *see* Rotter **A514**(1990)401
Døssing, T., *see* Ormand **A519**(1990) 61c
Døssing, T., *see* Vigezzi **A520**(1990)179c
Døssing, T., *see* Herskind **A520**(1990)539c
Doubre, H., *see* Ardouin **A514**(1990)564
Doubre, H., *see* Péter **A519**(1990)127c
Doubre, H., *see* Péter **A519**(1990)611
Draayer, J.P., *see* Naqvi **A516**(1990)351
Draayer, J.P., Shell model scheme for quadrupole phenomena in heavy deformed nuclei **A520**(1990)259c
Dracoulis, G.D., *see* Fabricius **A511**(1990)345
Dracoulis, G.D., *see* Bark **A514**(1990)503
Dracoulis, G.D., *see* Baxter **A515**(1990)493
Dracoulis, G.D., P.M. Davidson, A.P. Byrne, B. Fabricius, T. Kibèdi, A.M. Baxter, A.E. Stuchbery, A.R. Poletti, K.J. Schiffer, High-spin yrast isomers in ^{211}Rn and ^{212}Rn with enhanced E3 decays **A520**(1990)353c
Drago, A., *see* Bräuer **A511**(1990)558
Dragon, L., *see* Plasil **A519**(1990)449c
Drake, D.M., *see* Lisantti **A511**(1990)643
Drake, T.E., *see* Pilotte **A514**(1990)545
Draper, J.E., *see* Henry **A520**(1990)115c
Draper, J.E., *see* Azaiez **A520**(1990)121c
Draper, J.E., *see* Becker **A520**(1990)187c
Drigert, M.W., M. Piiparinen, R.V.F. Janssens, R. Holzmann, I. Ahmad, J. Borggreen, R.R. Chasman, P.J. Daly, B.K. Dichter, H. Emling, U. Garg, Z.W. Grabowski, T.L. Khoo, W.C. Ma, M. Quader, D.C. Radford, W. Trzaska, Discrete and continuum gamma-ray studies of ^{147}Gd and ^{148}Gd **A515**(1990)466
Drigert, M.W., *see* Fernandez **A517**(1990)386
Drigert, M.W., *see* Janssens **A520**(1990) 75c
Drigert, M.W., *see* Carpenter **A520**(1990)133c
Drigert, M.W., *see* Khoo **A520**(1990)169c
Drissi, S., *see* Kern **A512**(1990) 1
Drissi, S., *see* Salicio **A512**(1990)109
Drissi, S., J. Kern, E. Hagn, ^{174}Lu nuclear structure revisited **A512**(1990)413
Drukarev, E.G., E.M. Levin, The QCD sum rules and nuclear matter **A511**(1990)679
Drukarev, E.G., M.B. Trzhaskovskaya, The role of the final-state interaction in the ionization of the K-shell during β-decay of nuclei **A518**(1990)513
Drumm, P.V., *see* Smithson **A517**(1990)193
Dubuc, J., *see* Carpenter **A513**(1990)125
Duchene, G., *see* Zuber **A520**(1990)195c
Dudek, J., *see* Zuber **A520**(1990)195c
Duek, E., *see* Jacquet **A511**(1990)195
Duffait, R., *see* Äystö **A515**(1990)365
Dufour, J.P., *see* Détraz **A519**(1990)529
Duhamel, P., *see* El Masri **A517**(1990)340
Dukelsky, J., P. Schuck, Towards a variational theory for RPA-like correlations and fluctuations **A512**(1990)466
Dumont, H., *see* Cavallaro **A513**(1990)174
Duong, H.T., *see* Savard **A512**(1990)241
Dupieux, P., *see* L'Hôte **A519**(1990)331c
Durand, D., J.L. Laville, G. Bizard, R. Bougault, A. Genoux-Lubain, F. Lefebvres, J.P. Patry, A. Badalá, R. Barbera, A. Palmeri, G.S. Pappalardo, A. Schillaci, G.M. Jin, E. Rosato, Light fragment emission correlated with large transverse momentum protons in 94 MeV/u ^{16}O induced reactions **A511**(1990)442
Durand, D., *see* Barbera **A518**(1990)767
Durand, D., *see* Barbera **A519**(1990)231c
Durand, J.M., *see* Chivassa **A519**(1990)413c
Durso, J.W., *see* Lohse **A516**(1990)513
Dymarz, R., F.C. Khanna, The Δ-isobars in the deuteron **A516**(1990)549
Dzemidzić, M., *see* Steinacher **A517**(1990)413
Eberth, J., *see* Andrejtscheff **A516**(1990)157
Eberth, J., P. von Brentano, W. Teichert, T. Mylaeus, R.M. Lieder, W. Gast, G. Hebbinghaus, H. Jäger, K.H. Maier, H. Grawe, H. Kluge, D. Schwalm, J. Gerl, H. Hübel, R. Henck, D. Gutknecht, Development of composite Ge detectors for EUROBALL **A520**(1990)669c
Eckle, F.J., *see* Blasi **A511**(1990)251
Efimov, A.D., *see* Rotter **A514**(1990)401
Egido, J.L., L.M. Robledo, A self-consistent approach to the ground state and lowest-lying negative-parity state in the barium isotopes **A518**(1990)475
Eklund, A., *see* Plasil **A519**(1990)449c
Ekström, L.P., *see* Borghols **A515**(1990)173

Ekström, P., *see* Yu **A511**(1990)157
Eleftheriades, G.P., *see* Xenoulis **A516**(1990)108
Elitzur, S., *see* Ashktorab **A517**(1990) 27
El Masri, Y., F. Hanappe, J.C. Steckmeyer, V. Martin, G. Bizard, B. Borderie, R. Brou, J.F. Bruandet, P. Duhamel, H. Fuchs, J.L. Laville, J. Péter, R. Régimbart, M. Rivet, B. Tamain, Tsan Ung Chan, Gamma-ray multiplicity measurements for the determination of the initial angular momentum ranges in normal and fast fission processes **A517**(1990)340
Elsenhans, H., H. Müther, R. Machleidt, Parametrization of the relativistic effective interaction in nuclear matter **A515**(1990)715
Emery, G.T., *see* Sethi **A518**(1990)536
Emling, H., *see* Drigert **A515**(1990)466
Emling, H., New physics to be learned from radioactive beams and nuclear fragmentation **A520**(1990)687c
Emsallem, A., *see* Äystö **A515**(1990)365
Endt, P.M., *see* Kikstra **A512**(1990)425
Endt, P.M., *see* Iliadis **A512**(1990)509
Engel, J., *see* Alford **A514**(1990) 49
Engel, O., U. Hartmann, A. Richter, H.J. Wörtche, Graphic representation of the interacting boson model parameters in the symmetry triangle **A515**(1990) 31
Engelhardt, D., *see* Martinez **A515**(1990)433
England, J.B.A., *see* Sen Gupta **A512**(1990) 97
England, J.B.A., *see* Ballester **A513**(1990) 61
England, J.B.A., *see* Sen Gupta **A517**(1990) 82
Entezami, F.E., *see* Virtue **A517**(1990)509
Epstein, M.B., *see* Slaus **A515**(1990) 57
Eramzhyan, R.A., *see* Kukulin **A517**(1990)221
Ericson, M., Neutrino reactions and nuclear shadow **A518**(1990)116
Ernst, D.J., G.E. Parnell, C. Assad, Doorway-resonance model for pion–nucleon D- and F-wave scattering **A518**(1990)658
Erö, J., *see* Büchle **A515**(1990)541
Erokhina, K.I., *see* Rotter **A514**(1990)401
Eskola, K., *see* Äystö **A515**(1990)365
Espino, J.M., *see* Yu **A511**(1990)157
Espino, J.M., *see* Gascon **A513**(1990)344
Etchegoyen, A., *see* Etchegoyen **A518**(1990)572
Etchegoyen, M.C., A. Etchegoyen, A.O. Macchiavelli, G. Crawley, C. Djalali, M. Rentería, A. Szanto de Toledo, G. Westfall, $^{18}O+^{58}Ni$ reaction at 35 MeV/nucleon **A518**(1990)572
Fabricius, B., G.D. Dracoulis, R.A. Bark, A.E. Stuchbery, T. Kibèdi, A.M. Baxter, High-spin states and intrinsic structure in ^{174}Os and ^{175}Os: Alignments and strong interaction **A511**(1990)345
Fabricius, B., *see* Dracoulis **A520**(1990)353c
Faessler, A., *see* Bräuer **A511**(1990)558
Faessler, A., R. Nojarov, F.G. Scholtz, Magnetic dipole electroexcitations in rare-earth nuclei **A515**(1990)237
Faessler, A., *see* Furui **A516**(1990)643
Faessler, A., *see* Petrovici **A517**(1990)108
Fallon, P., *see* Riley **A512**(1990)178
Fallon, P., *see* Gascon **A513**(1990)344
Fallon, P., *see* Cullen **A520**(1990)105c
Fallon, P., *see* Riley **A520**(1990)279c
Fallon, P., *see* Sletten **A520**(1990)325c
Falomkin, I.V., *see* Bendiscioli **A518**(1990)683
Farine, M., *see* Nayak **A516**(1990) 62
Farzanpay, F., *see* Lisantti **A511**(1990)643
Fasano, C.G., T.-S.H. Lee, Coupled-channel meson-exchange NN model with a separable short-range interaction **A513**(1990)442
Faust, H., *see* Martinez **A515**(1990)433
Fava, L., *see* Bendiscioli **A518**(1990)683
Feldmeier, H., Fermionic molecular dynamics **A515**(1990)147
Ferguson, R.L., *see* Plasil **A519**(1990)449c
Fernandez, B., *see* Braeunig **A519**(1990)631
Fernandez, P., *see* Carpenter **A520**(1990)133c
Fernandez, P.B., M.P. Carpenter, R.V.F. Janssens, I. Ahmad, E.F. Moore, T.L. Khoo, F. Scarlassara, I.G. Bearden, Ph. Benet, P.J. Daly, M.W. Drigert, U. Garg, W. Reviol, D. Ye, S. Pilotte, Proton excitations in the superdeformed well of ^{193}Tl **A517**(1990)386
Fernandez, P.B., *see* Janssens **A520**(1990) 75c
Ferreira, L.S., *see* Baldo **A516**(1990)589
Ferreira, L.S., Nuclear matter with Δ degrees of freedom **A519**(1990)269c
Ferreira Filho, L.G., *see* Baur **A518**(1990)786
Ferrero, F., *see* Chivassa **A519**(1990)413c
Ferrero, J.L., J.C. Pacheco, A. Baeza, J.M. Barrigon, B. Bilwes, R. Bilwes, N. Vinh Mau, Elastic scattering of ^{35}Cl and ^{37}Cl on ^{24}Mg **A514**(1990)367
Ferrero, L., *see* Bendiscioli **A518**(1990)683
Feshbach, H., On the second-order spin–orbit interaction for proton–nucleus scattering **A518**(1990)303
Fettweis, P., *see* Hoyler **A512**(1990)189
Fiedeldey, H., *see* Slaus **A515**(1990) 57
Fields, D.F., *see* Pollacco **A519**(1990)197c
Filippini, V., *see* Bendiscioli **A518**(1990)683
Filippov, S.N., *see* Baldin **A519**(1990)407c
Fink, G., P. Doll, T.D. Ford, R. Garrett, W. Heeringa, K. Hofmann, H.O. Klages, H. Krupp,

Backward angle np differential cross sections from 22 to 50 MeV **A518**(1990)561
Finocchiaro, P., *see* Agodi **A515**(1990)524
Fiolhais, C., *see* Da Providência **A516**(1990) 53
Fiore, L., *see* Charity **A511**(1990) 59
Fiorentini, G., *see* Bracci **A513**(1990)316
Fleury, A., *see* Détraz **A519**(1990)529
Flibotte, S., *see* Pilotte **A514**(1990)545
Flocard, H., *see* Krieger **A517**(1990)275
Flocard, H., *see* Bonche **A519**(1990)509
Fodor, Z., *see* Büchle **A515**(1990)541
Ford, T.D., *see* Fink **A518**(1990)561
Forsyth, P.D., *see* Riley **A512**(1990)178
Forsyth, P.D., *see* Gascon **A513**(1990)344
Forsyth, P.D., *see* Cullen **A520**(1990)105c
Forsyth, P.D., *see* Riley **A520**(1990)279c
Fossan, D.B., *see* Hübel **A520**(1990)125c
Fossan, D.B., J.R. Hughes, Y. Liang, R. Ma, E.S. Paul, N. Xu, Collectively-rotating oblate bands in the $A \sim 130$ mass region **A520**(1990)241c
Francis, D.A., *see* Warner **A516**(1990)416
Franey, M.A., *see* Ohnuma **A514**(1990)273
Frankfurt, L.L., M.I. Strikman, M.B. Zhalov, Color transparency effects for hole excitations in A(e, e′p) reactions **A515**(1990)599
Franz, A., *see* Plasil **A519**(1990)449c
Franz, J., *see* Büchle **A515**(1990)541
Fraysse, L., *see* L'Hôte **A519**(1990)331c
Frederico, T., *see* Hussein **A511**(1990)269
Frekers, D., *see* Alford **A514**(1990) 49
Friedman, E., A. Goldring, G.J. Wagner, A. Altman, R.R. Johnson, O. Meirav, B.K. Jennings, Integral cross sections for π^+p interactions at low energies **A514**(1990)601
Friman, B.L., *see* Cubero **A519**(1990)345c
Friman, B.L., *see* Barz **A519**(1990)479c
Friman, B.L., *see* Barz **A519**(1990)831
Frisk, H., Shell structure in terms of periodic orbits **A511**(1990)309
Fuchs, H., *see* Jacquet **A511**(1990)195
Fuchs, H., *see* El Masri **A517**(1990)340
Fujiwara, H., *see* Lee **A519**(1990)221c
Fukugita, M., *see* Kuramoto **A512**(1990)711
Fulton, B.R., *see* Smithson **A517**(1990)193
Funke, L., *see* Rotter **A514**(1990)401
Furić, M., *see* Steinacher **A517**(1990)413
Furui, S., G. Strobel, A. Faessler, R. Vinh Mau, The isospin mixing effect in $\bar{p}p$ annihilation at rest into $\pi^+\pi^-$ and $K\bar{K}$ **A516**(1990)643
Furuno, K., *see* Yu **A511**(1990)157
Gaardhøje, J.J., *see* Bracco **A519**(1990) 47c
Gaardhøje, J.J., A. Maj, Limits of nuclear stability at finite temperature explored with giant resonances **A520**(1990)575c
Gabelmann, H., *see* Borge **A515**(1990) 21
Galin, J., *see* Jacquet **A511**(1990)195
Galindo-Uribarri, A., *see* Pilotte **A514**(1990)545
Gallio, M., *see* Chivassa **A519**(1990)413c
Galonsky, A., *see* Warner **A516**(1990)416
Ganezer, K., *see* Shor **A514**(1990)717
Gao, C.-S., *see* Chao **A514**(1990)734
Gao, Q., *see* Li **A515**(1990)273
Gao, S., *see* Yang **A514**(1990)706
Garcia-Bermudez, G., *see* Nicolis **A520**(1990)153c
Gardes, D., *see* Jacquet **A511**(1990)195
Garg, U., *see* Drigert **A515**(1990)466
Garg, U., *see* Fernandez **A517**(1990)386
Garg, U., *see* Janssens **A520**(1990) 75c
Garg, U., *see* Carpenter **A520**(1990)133c
Garg, U., *see* Khoo **A520**(1990)169c
Garpman, S., *see* Plasil **A519**(1990)449c
Garrett, J.D., *see* Yu **A511**(1990)157
Garrett, J.D., *see* Nazarewicz **A512**(1990) 61
Garrett, J.D., *see* Zhang **A520**(1990)251c
Garrett, J.D., *see* Lisle **A520**(1990)451c
Garrett, R., *see* Fink **A518**(1990)561
Gascon, J., C.-H. Yu, G.B. Hagemann, M.C. Carpenter, J.M. Espino, Y. Iwata, T. Komatsubara, J. Nyberg, S. Ogaza, G. Sletten, P.O. Tjøm, D.C. Radford, J. Simpson, A. Alderson, M.A. Bentley, P. Fallon, P.D. Forsyth, J.W. Roberts, J.F. Sharpey-Schafer, Configuration-dependent transition rates in ^{157}Ho **A513**(1990)344
Gast, W., *see* Venkova **A514**(1990) 87
Gast, W., *see* Hebbinghaus **A514**(1990)225
Gast, W., *see* Eberth **A520**(1990)669c
Gattone, A., *see* Buballa **A517**(1990) 61
Gavrilov, Yu.K., *see* Baldin **A519**(1990)407c
Gazis, E.N., *see* Xenoulis **A516**(1990)108
Gehringer, C., *see* Zuber **A520**(1990)195c
Gelberg, A., *see* Casten **A514**(1990)252
Gelbke, C.K., *see* Ardouin **A514**(1990)564
Gelletly, W., *see* Skeppstedt **A511**(1990)137
Geltenbort, P., *see* Beda **A513**(1990) 53
Genoux-Lubain, A., *see* Durand **A511**(1990)442
Genoux-Lubain, A., *see* Barbera **A518**(1990)767
Gerl, J., *see* Eberth **A520**(1990)669c
Germond, J.-F., C. Wilkin, The $pp \to pp\eta$ reaction near threshold **A518**(1990)308
Girard, R., J. LeTourneux, L. Vinet, Effective hamiltonian and Berry potentials for the dipole-quadrupole problem in spherical nuclei **A512**(1990)149
Giusti, C., *see* Boffi **A518**(1990)639
Gizon, J., *see* Hildingsson **A513**(1990)394
Gjørup, N.L., *see* Sletten **A520**(1990)325c
Glasow, R., *see* Plasil **A519**(1990)449c
Glatky, I.M., A.M. Lapik, B.S. Ratner, S.S. Verbitsky, A.V. Veselovsky, Decay of doorway

states formed in the giant dipole resonance in the case of the $^{58}Ni(\gamma, n)^{57}Ni$ reaction **A512**(1990)167
Gleissl, P., *see* Nayak **A516**(1990) 62
Glendenning, N.K., Hadron to quark-gluon phase transition in the baryon-rich domain **A512**(1990)737
Gobbi, A., *see* Charity **A511**(1990) 59
Goettig, L., *see* Skeppstedt **A511**(1990)137
Göktürk, H., *see* Hoyler **A512**(1990)189
Goldring, A., *see* Friedman **A514**(1990)601
Gollwitzer, N., *see* Hughes **A512**(1990)275
Gomes, P.R.S., *see* Liguori Neto **A512**(1990)333
Goncharova, N.G., V.J. Spevak, H.R. Kissener, $1\hbar\omega$ multipole excitations of the ^{15}N nucleus **A516**(1990) 15
Gönnenwein, F., *see* Beda **A513**(1990) 53
Gönnenwein, F., *see* Martinez **A515**(1990)433
Goodman, A.L., Thermal shape fluctuations at constant energy **A520**(1990)567c
Gorenstein, M.I., *see* Averchenkov **A511**(1990)407
Gorodetzky, P., *see* L'Hôte **A519**(1990)331c
Görres, J., S. Graff, M. Wiescher, R.E. Azuma, C.A. Barnes, H.W. Becker, T.R. Wang, Proton capture on ^{14}C and its astrophysical implications **A517**(1990)329
Gosset, J., *see* L'Hôte **A519**(1990)331c
Gothe, R.W., *see* So **A517**(1990)473
Grabmayr, P., *see* Woldt **A518**(1990)496
Grabowski, Z.W., *see* Drigert **A515**(1990)466
Grabowski, Z.W., *see* Janssens **A520**(1990) 75c
Grabowski, Z.W., *see* Khoo **A520**(1990)169c
Grafen, V., *see* Hughes **A512**(1990)275
Graff, S., *see* Görres **A517**(1990)329
Granik, A., *see* Chapline **A511**(1990)747
Graw, G., *see* Blasi **A511**(1990)251
Grawe, H., *see* Hübel **A520**(1990)125c
Grawe, H., *see* Eberth **A520**(1990)669c
Grawert, G., *see* Mannstadt **A519**(1990)659
Green, P., *see* Alford **A514**(1990) 49
Grégoire, C., *see* Jacquet **A511**(1990)195
Grégoire, C., *see* Ayik **A513**(1990)187
Grégoire, C., *see* Ardouin **A514**(1990)564
Greiner, W., *see* Neise **A519**(1990)375c
Griffin, H.C., *see* Nicolis **A520**(1990)153c
Griffioen, K.A., *see* Bakkum **A511**(1990)117
Grimm Jr., M.A., *see* Sethi **A518**(1990)536
Grinberg, A.P., *see* Rotter **A514**(1990)401
Grion, N., *see* Rui **A517**(1990)455
Gross, D.H.E., *see* Jaqaman **A514**(1990)327
Grümmer, F., *see* Petrovici **A517**(1990)108
Guaraldo, C., *see* Bendiscioli **A518**(1990)683
Guarino, G., *see* Charity **A511**(1990) 59
Guber, F.F., *see* Baldin **A519**(1990)407c
Gudima, K.K., *see* Toneev **A519**(1990)463c
Guenther, P.T., *see* Lawson **A519**(1990)487
Guerreau, D., *see* Jacquet **A511**(1990)195
Guerreau, D., *see* Bazin **A515**(1990)349
Guidotti, R., F. Saporetti, G. Maino, A. Ventura, Microscopic approach to M1 radiative capture of nucleons **A516**(1990) 41
Guillemaud-Mueller, D., *see* Mueller **A513**(1990) 1
Guillemaud-Mueller, D., *see* Bazin **A515**(1990)349
Guillemaud-Mueller, D., *see* Détraz **A519**(1990)529
Gulminelli, F., *see* Bonasera **A519**(1990)211c
Günther, C., *see* Hughes **A512**(1990)275
Gupta, R.K., *see* Khosla **A513**(1990)115
Gustafsson, H.A., *see* Plasil **A519**(1990)449c
Gutbrod, H.H., *see* Plasil **A519**(1990)449c
Gutknecht, D., *see* Eberth **A520**(1990)669c
Guttormsen, M., *see* Tveter **A516**(1990) 1
Haas, B., *see* Zuber **A520**(1990)195c
Haatuft, A., *see* Bendiscioli **A518**(1990)683
Haenni, D.R., *see* Utsunomiya **A511**(1990)379
Haenni, D.R., *see* Carpenter **A513**(1990)125
Hagel, K., *see* Péter **A519**(1990)127c
Hagel, K., *see* Péter **A519**(1990)611
Hagemann, G.B., *see* Yu **A511**(1990)157
Hagemann, G.B., *see* Gascon **A513**(1990)344
Hagemann, G.B., *see* Lisle **A520**(1990)451c
Hagn, E., *see* Drissi **A512**(1990)413
Håkansson, A., J. Blomgren, A. Likar, A. Lindholm, L. Nilsson, N. Olsson, R. Zorro, The isovector E2 resonance in bismuth excited by neutron radiative capture **A512**(1990)399
Håkansson, A., *see* Borghols **A515**(1990)173
Halbert, M.L., *see* Nyberg **A511**(1990) 92
Halbert, M.L., *see* Carpenter **A513**(1990)125
Halbert, M.L., *see* Nicolis **A520**(1990)153c
Halbert, M.L., *see* Baktash **A520**(1990)555c
Hall, S.J., *see* Kellie **A515**(1990)125
Hall, S.J., *see* Springham **A517**(1990) 93
Hall, S.J., *see* So **A517**(1990)473
Halsteinslid, A., *see* Bendiscioli **A518**(1990)683
Hamamoto, I., *see* Salicio **A512**(1990)109
Hamamoto, I., What do we know about triaxial nuclear shape? **A520**(1990)297c
Hamilton, J.H., New insights into nuclear structure from nuclei far from stability **A520**(1990)377c
Hanappe, F., *see* El Masri **A517**(1990)340
Hanna, F., *see* Riley **A512**(1990)178
Hanna, F., *see* Cullen **A520**(1990)105c
Hannachi, F., *see* Hübel **A520**(1990)125c
Hänscheid, H., *see* Taal **A511**(1990)573
Hansen, P.G., B. Jonson, A. Richter, Applications of statistical nuclear physics to nuclear spectroscopy **A518**(1990) 13
Harada, T., *see* Okabe **A514**(1990)613
Harakeh, M.N., *see* Borghols **A515**(1990)173
Harakeh, M.N., *see* Pignanelli **A519**(1990)567

Harar, S., *see* Pollacco **A519**(1990)197c
Harney, H.L., A. Hüpper, A. Richter, Ericson fluctuations, detailed balance and time-reversal invariance **A518**(1990) 35
Hartmann, F.J., *see* Hofmann **A512**(1990)669
Hartmann, U., *see* Engel **A515**(1990) 31
Hartnack, C., *see* Neise **A519**(1990)375c
Hasegawa, T., *see* Ohnuma **A514**(1990)273
Hashimoto, Y., *see* Sakata **A519**(1990) 93c
Hasinoff, M.D., *see* Virtue **A517**(1990)509
Hasselgren, L., *see* Kotliński **A519**(1990)646
Hausman, H.J., *see* Rath **A515**(1990)338
Häusser, O., *see* Alford **A514**(1990) 49
Hayakawa, S.I., *see* Ohnuma **A514**(1990)273
Hebbinghaus, G., *see* Venkova **A514**(1990) 87
Hebbinghaus, G., T. Kutsarova, W. Gast, A. Krämer-Flecken, R.M. Lieder, W. Urban, Study of band structures in the γ-unstable nucleus ^{186}Pt **A514**(1990)225
Hebbinghaus, G., *see* Murzel **A516**(1990)189
Hebbinghaus, G., *see* Eberth **A520**(1990)669c
Hebenstreit, J., *see* Jarczyk **A518**(1990)583
Hecht, K.T., J.-Q. Chen, Matrix elements in the Sp(6) $\supset$ U(3) branch of the S, D fermion pair model **A512**(1990)365
Heenen, P.H., *see* Bonche **A519**(1990)509
Heeringa, W., *see* Fink **A518**(1990)561
Heil, R.D., *see* Degener **A513**(1990) 29
Heimberg, P., *see* Utsunomiya **A511**(1990)379
Heiselberg, H., C.J. Pethick, D.G. Ravenhall, Sound modes and density waves instabilities in hot Fermi systems **A519**(1990)279c
Helene, O., *see* Busto **A513**(1990)291
Helmer, K.G., *see* Kotliński **A517**(1990)365
Helmer, R.L., *see* Alford **A514**(1990) 49
Henck, R., *see* Eberth **A520**(1990)669c
Henderson, R., *see* Alford **A514**(1990) 49
Henley, E.M., H. Müther, Medium effects in the Nambu–Jona-Lasinio model **A513**(1990)667
Henley, E.M., G.A. Miller, The proton charge form factor and the neutron–proton mass difference **A518**(1990)207
Henry, E.A., J.A. Becker, M.J. Brinkman, A. Kuhnert, S.W. Yates, M.A. Deleplanque, R.M. Diamond, F.S. Stephens, C.W. Beausang, W.H. Kelly, W. Korten, F. Azaiez, J.E. Draper, E. Rubel, J.A. Cizewski, Y.A. Akovali, Properties of superdeformed bands in the $A = 194$ region **A520**(1990)115c
Henry, E.A., *see* Azaiez **A520**(1990)121c
Henry, E.A., *see* Becker **A520**(1990)187c
Hensley, D.C., *see* Nicolis **A520**(1990)153c
Hensley, D.C., *see* Baktash **A520**(1990)555c
Heppner, S., *see* Murzel **A516**(1990)189
Herskind, B., *see* Bracco **A519**(1990) 47c
Herskind, B., *see* Lisle **A520**(1990)451c
Herskind, B., *see* Schiffer **A520**(1990)521c
Herskind, B., T. Døssing, S. Leoni, Fluctuation analysis of rotational motion in warm atomic nuclei **A520**(1990)539c
Hertenberger, R., *see* Blasi **A511**(1990)251
Heusch, B., *see* Lee **A519**(1990)221c
Hicks, K., *see* Alford **A514**(1990) 49
Hicks, K.H., *see* Lisantti **A511**(1990)643
Hildenbrand, K.D., *see* Charity **A511**(1990) 59
Hildingsson, L., W. Klamra, Th. Lindblad, C.G. Lindén, C.A. Kalfas, S. Kossionides, C.T. Papadopoulos, R. Vlastou, J. Gizon, D. Clarke, F. Khazaie, J.N. Mo, High-spin properties of ^{173}Re **A513**(1990)394
Hirsch, J., E. Bauer, F. Krmpotić, Gamow–Teller strength functions and two-neutrino double-beta decay **A516**(1990)304
Hirsch, J., *see* Mariano **A518**(1990)523
Ho, T., *see* Ching **A513**(1990)697
Hoehn, M.V., *see* Kunselman **A514**(1990)589
Hoffart, A., *see* Steinacher **A517**(1990)413
Hofmann, K., *see* Fink **A518**(1990)561
Hofmann, P., F.J. Hartmann, H. Daniel, T. von Egidy, W. Kanert, W. Markiel, H.S. Plendl, H. Machner, G. Riepe, D. Protić, K. Ziock, R. Marshall, J.J. Reidy, Charged-particle spectra from antiproton annihilation at rest in $A = 12$–238 nuclei **A512**(1990)669
Hofstee, M.A., *see* Woldt **A518**(1990)496
Hofstee, M.A., *see* Pignanelli **A519**(1990)567
Hogenbirk, A., H.P. Blok, M.G.E. Brand, A.G.M. van Hees, J.F.A. van Hienen, F.A. Jansen, A study of ^{36}S by high-resolution inelastic proton and alpha scattering **A516**(1990)205
Holinde, K., *see* Müller-Groeling **A513**(1990)557
Holinde, K., *see* Lohse **A516**(1990)513
Holliday, V.E., *see* Hughes **A512**(1990)275
Holzmann, R., *see* Drigert **A515**(1990)466
Holzwarth, G., G. Pari, B.K. Jennings, Low-energy pion–nucleon P-wave scattering in the Skyrme model **A515**(1990)665
Honkanen, K., *see* Carpenter **A513**(1990)125
Hopkins, P.D.B., *see* Buck **A513**(1990) 75
Horn, D., *see* Pilotte **A514**(1990)545
Horowitz, C.J., J. Piekarewicz, Nuclear response functions in quasielastic electron scattering **A511**(1990)461
Horváth, D., *see* Virtue **A517**(1990)509

Hoshino, N., *see* Ohnuma **A514**(1990)273
Hostachy, J.Y., *see* Braeunig **A519**(1990)631
Hourani, E., *see* Pollacco **A519**(1990)197c
Howard, A.J., *see* Champagne **A512**(1990)317
Howden, S., *see* Westfall **A519**(1990)141c
Hoyler, F., J. Jolie, G.G. Colvin, H.G. Börner, K. Schreckenbach, P. Van Isacker, P. Fettweis, H. Göktürk, J.C. Dehaes, R.F. Casten, D.D. Warner, A.M. Bruce, Spectroscopy of the odd-odd nucleus ^{76}As and its supersymmetric description **A512**(1990)189
Hoyler, F., *see* Kaerts **A514**(1990)173
Huang, C.-H., D.A. Wang, W.H. Ma, Elastic ^{4}He+^{4}He scattering in the hybrid quark-hadron model **A518**(1990)717
Hübel, H., *see* Byrne **A516**(1990)145
Hübel, H., *see* Murzel **A516**(1990)189
Hübel, H., K. Theine, D. Mehta, W. Schmitz, P. Willsau, C.X. Yang, F. Hannachi, D.B. Fossan, H. Grawe, H. Kluge, K.H. Maier, Superdeformation in ^{194}Pb **A520**(1990)125c
Hübel, H., *see* Lisle **A520**(1990)451c
Hübel, H., *see* Eberth **A520**(1990)669c
Hubert, F., *see* Détraz **A519**(1990)529
Hubert, Ph., *see* Busto **A513**(1990)291
Hüfner, J., V. Kitipova, A geometric model for proton-proton, proton-nucleus and nucleus-nucleus collisions at high energy **A517**(1990)571
Hüfner, J., C.H. Lewenkopf, M.C. Nemes, Multiple scattering in random colour fields **A518**(1990)297
Hughes, J.R., R. Tölle, J. De Boer, P.A. Butler, C. Günther, V. Grafen, N. Gollwitzer, V.E. Holliday, G.D. Jones, C. Lauterbach, M. Marten-Tölle, S.M. Mullins, R.J. Poynter, R.S. Simon, N. Singh, R.J. Tanner, R. Wadsworth, D.L. Watson, C.A. White, Octupole correlations in ^{225}Th **A512**(1990)275
Hughes, J.R., *see* Fossan **A520**(1990)241c
Hughes, V.W., High-energy physics with polarized electrons and muons **A518**(1990)371
Hüpper, A., *see* Harney **A518**(1990) 35
Hussein, M.S., T. Frederico, R.C. Mastroleo, Faddeev and DWBA description of inclusive break-up and incomplete fusion reactions **A511**(1990)269
Hyuga, H., *see* Aoki **A516**(1990)496
Iachello, F., The role of dynamic symmetries in hadronic structure **A518**(1990)173
Iazzi, F., *see* Agnello **A516**(1990)662
Idh, J., *see* Plasil **A519**(1990)449c
Ieki, K., *see* Ohnuma **A514**(1990)273
Ieki, K., *see* Lee **A519**(1990)221c
Iliadis, Ch., Th. Schange, C. Rolfs, U. Schröder, E. Somorjai, H.P. Trautvetter, K. Wolke, P.M. Endt, S.W. Kikstra, A.E. Champagne, M. Arnould, G. Paulus, Low-energy resonances in ^{25}Mg(p, γ)^{26}Al, ^{26}Mg(p, γ)^{27}Al and ^{27}Al(p, γ)^{28}Si **A512**(1990)509
Insolia, A., *see* Pomar **A515**(1990)381
Ionescu, V.A., *see* Kern **A512**(1990) 1
Isakov, V.I., *see* Rotter **A514**(1990)401
Islam, M.S., *see* Rath **A515**(1990)338
Iwasawa, K., *see* Sakata **A519**(1990) 93c
Iwase, M., *see* Ohnuma **A514**(1990)273
Iwata, Y., *see* Gascon **A513**(1990)344
Izumi, M., *see* Minamisono **A516**(1990)365
Iżycki, M., *see* Steinacher **A517**(1990)413
Jackson, K.P., *see* Alford **A514**(1990) 49
Jacmart, J.C., *see* Mueller **A513**(1990) 1
Jacmart, J.C., *see* Détraz **A519**(1990)529
Jacobs, P., *see* Plasil **A519**(1990)449c
Jacobsen, T., *see* Bendiscioli **A518**(1990)683
Jacquet, D., G.F. Peaslee, J.M. Alexander, B. Borderie, E. Duek, J. Galin, D. Gardes, C. Grégoire, D. Guerreau, H. Fuchs, M. Lefort, M.F. Rivet, X. Tarrago, Production and deexcitation of hot nuclei in collisions of 27 MeV/nucleon ^{40}Ar with ^{238}U **A511**(1990)195
Jäger, H., *see* Eberth **A520**(1990)669c
Jahn, R., *see* Von Neumann-Cosel **A516**(1990)385
Jain, B.K., A.B. Santra, Study of the p(p, n)Δ^{++} reaction **A519**(1990)697
Jäkel, O., H.-W. Ortner, M. Dillig, C.A.Z. Vasconcellos, Chiral symmetry and the near threshold pion-induced 2π production on the nucleon (I). General formalism **A511**(1990)733
James, A.N., *see* Sletten **A520**(1990)325c
Janas, Z., *see* Äystö **A515**(1990)365
Jänecke, J., *see* Ashktorab **A517**(1990) 27
Jansen, F.A., *see* Hogenbirk **A516**(1990)205
Janssens, R.V.F., *see* Drigert **A515**(1990)466
Janssens, R.V.F., *see* Fernandez **A517**(1990)386
Janssens, R.V.F., M.P. Carpenter, M.W. Drigert, P.B. Fernandez, E.F. Moore, D. Ye, I. Ahmad, K.B. Beard, I.G. Bearden, Ph. Benet, P.J. Daly, U. Garg, Z.W. Grabowski, T.L. Khoo, W. Reviol, F.L.H. Wolfs, Superdeformation in the mercury nuclei **A520**(1990) 75c
Janssens, R.V.F., *see* Carpenter **A520**(1990)133c
Janssens, R.V.F., *see* Khoo **A520**(1990)169c

Janzen, V.P., *see* Nyberg **A511**(1990) 92
Janzen, V.P., *see* Carpenter **A513**(1990)125
Janzen, V.P., *see* Pilotte **A514**(1990)545
Jaqaman, H.R., G. Papp, D.H.E. Gross, Percolation versus microcanonical fragmentation – comparison of fragment size distributions. Where is the liquid–gas transition in nuclei? **A514**(1990)327
Jarczyk, L., B. Kamys, A. Magiera, R. Siudak, A. Strzalkowski, B. Styczen, J. Hebenstreit, W. Oelert, P. von Rossen, H. Seyfarth, G.R. Satchler, Scattering of 344.5 MeV ^{12}C ions on ^{11}B, ^{12}C, ^{27}Al, ^{58}Ni, ^{90}Zr and ^{197}Au nuclei **A518**(1990)583
Jarlskog, C., The simplest scheme with massive neutrinos **A518**(1990)129
Jauho, P.P., *see* Äystö **A515**(1990)365
Jennewein, P., *see* Springham **A517**(1990) 93
Jennings, B.K., *see* Friedman **A514**(1990)601
Jennings, B.K., *see* Holzwarth **A515**(1990)665
Jensen, A.S., *see* Mandrup **A512**(1990)591
Jeong, S.C., *see* Péter **A519**(1990)127c
Jeong, S.C., *see* Lee **A519**(1990)221c
Jeong, S.G., *see* Péter **A519**(1990)611
Jeppesen, R., *see* Alford **A514**(1990) 49
Jessenberger, R., *see* Buballa **A517**(1990) 61
Jin, G.M., *see* Durand **A511**(1990)442
Jin, G.M., *see* Barbera **A518**(1990)767
Jin, G.M., *see* Péter **A519**(1990)127c
Jin, G.M., *see* Barbera **A519**(1990)231c
Jin, G.M., *see* Péter **A519**(1990)611
Jin, H.-Q., *see* Riedinger **A520**(1990)287c
Jing, K.X., *see* Charity **A511**(1990) 59
Johannsen, L., *see* Borge **A515**(1990) 21
Johansson, J.K., *see* Carpenter **A513**(1990)125
Johansson, J.K., *see* Pilotte **A514**(1990)545
Johnson, A., *see* Nyberg **A511**(1990) 92
Johnson, A., *see* Wyss **A511**(1990)324
Johnson, A., *see* Carpenter **A513**(1990)125
Johnson, N.R., *see* Nyberg **A511**(1990) 92
Johnson, N.R., *see* Carpenter **A513**(1990)125
Johnson, N.R., *see* Nicolis **A520**(1990)153c
Johnson, N.R., *see* Baktash **A520**(1990)555c
Johnson, R.C., *see* Al-Khalili **A514**(1990)649
Johnson, R.R., *see* Friedman **A514**(1990)601
Johnson, R.R., *see* Rui **A517**(1990)455
Jokinen, A., *see* Äystö **A515**(1990)365
Jolie, J., *see* Hoyler **A512**(1990)189
Jones, G.D., *see* Hughes **A512**(1990)275
Jones, W.P., *see* Sethi **A518**(1990)536
Jonson, B., *see* Borge **A515**(1990) 21
Jonson, B., *see* Hansen **A518**(1990) 13
Jung, A., *see* Degener **A513**(1990) 29
Juutinen, S., *see* Nyberg **A511**(1990) 92
Juutinen, S., *see* Sletten **A520**(1990)325c
Kabasawa, H., *see* Ohnuma **A514**(1990)273
Kabir, A., B. Buck, Cluster model of ^{23}Na and ^{23}Mg **A518**(1990)449
Kader, H., *see* Blasi **A511**(1990)251
Kaerts, E., P.H.M. Van Assche, S.A. Kerr, F. Hoyler, H.G. Börner, R.F. Casten, D.D. Warner, A study of the low-energy level structure of ^{165}Dy **A514**(1990)173
Kaipov, T.D., *see* Kukulin **A517**(1990)221
Kaiser, N., U.-G. Meissner, The pseudoscalar nucleon–nucleon interaction from a chiral soliton model **A515**(1990)648
Kaiser, N., U.-G. Meissner, Generalized hidden symmetry for low-energy hadron physics **A519**(1990)671
Kajrys, G., *see* Carpenter **A513**(1990)125
Kajrys, G., *see* Burke **A517**(1990) 1
Kaki, K., Multiple scattering contributions to the RIA optical potential **A516**(1990)603
Kalfas, C.A., *see* Hildingsson **A513**(1990)394
Kalmbach, U., T. Schäfer, T.S. Biró, U. Mosel, Sea effects in the chiral quark soliton model **A513**(1990)621
Kamermans, R., *see* Bakkum **A511**(1990)117
Kampert, K.H., *see* Plasil **A519**(1990)449c
Kamys, B., *see* Jarczyk **A518**(1990)583
Kanert, W., *see* Hofmann **A512**(1990)669
Kaptari, L.P., A.I. Titov, E.L. Bratkovskaya, A.Yu. Umnikov, Meson exchange corrections in deep inelastic scattering on the deuteron **A512**(1990)684
Karapiperis, T., *see* Alexandrou **A518**(1990)723
Karapiperis, T., T. Takaki, π-^{40}Ca inelastic scattering **A518**(1990)752
Karn, J., *see* Westfall **A519**(1990)141c
Kasagi, J., *see* Péter **A519**(1990)127c
Kasagi, J., *see* Péter **A519**(1990)611
Kashy, E., *see* Mueller **A513**(1990) 1
Käubler, L., *see* Rotter **A514**(1990)401
Kavanagh, R.W., *see* Seuthe **A514**(1990)471
Kavka, A.E., *see* Kotliński **A517**(1990)365
Kecskeméti, J., *see* Büchle **A515**(1990)541
Keinonen, J., *see* Tikkanen **A517**(1990)176
Kellie, J.D., A.R. Curran, S.J. Hall, G.I. Crawford, J.L. Robertson, D.T. Burns, The angular distribution of ground-state photoneutrons from ^{40}Ca from 18 MeV to 30 MeV **A515**(1990)125
Kellie, J.D., *see* Springham **A517**(1990) 93
Kellie, J.D., *see* So **A517**(1990)473
Kelly, W.H., *see* Henry **A520**(1990)115c
Kelly, W.H., *see* Azaiez **A520**(1990)121c
Kelly, W.H., *see* Becker **A520**(1990)187c
Kern, J., A. Bruder, S. Drissi, V.A. Ionescu, D. Kusnezov, Study of ^{110}Cd by the ^{108}Pd(α, 2nγ) reaction **A512**(1990) 1
Kern, J., *see* Salicio **A512**(1990)109

Kern, J., *see* Drissi **A512**(1990)413
Kernan, W.J., *see* Kotliński **A517**(1990)365
Kerr, S.A., *see* Kaerts **A514**(1990)173
Khanna, F.C., *see* Dymarz **A516**(1990)549
Kharchenko, V.F., M.A. Navrotsky, S.A. Shadchin, Direct calculation of the proton-deuteron scattering lengths with the explicit removal of the long-range polarization interaction **A512**(1990)294
Khazaie, F., *see* Yu **A511**(1990)157
Khazaie, F., *see* Sen Gupta **A512**(1990) 97
Khazaie, F., *see* Hildingsson **A513**(1990)394
Khazaie, F., *see* Sen Gupta **A517**(1990) 82
Khazaie, F., *see* Lisle **A520**(1990)451c
Khoo, T.L., *see* Drigert **A515**(1990)466
Khoo, T.L., *see* Fernandez **A517**(1990)386
Khoo, T.L., *see* Janssens **A520**(1990) 75c
Khoo, T.L., *see* Carpenter **A520**(1990)133c
Khoo, T.L., R.V.F. Janssens, E.F. Moore, K.B. Beard, Ph. Benet, I. Ahmad, M.P. Carpenter, R.R. Chasman, P.J. Daly, M.W. Drigert, U. Garg, Z.W. Grabowski, F.L.H. Wolfs, D. Ye, Population of superdeformed bands, the competition with fission, and the barrier between normal and superdeformed states **A520**(1990)169c
Khosla, H.S., S.S. Malik, R.K. Gupta, Two-centre shell model description of quasi-molecular resonance states in heavy-ion collisions **A513**(1990)115
Khriplovich, I.B., *see* Burichenko **A515**(1990)139
Kibèdi, T., *see* Fabricius **A511**(1990)345
Kibèdi, T., *see* Dracoulis **A520**(1990)353c
Kikstra, S.W., C. van der Leun, P.M. Endt, J.G.L. Booten, A.G.M. van Hees, A.A. Wolters, The ^{40}Ca level scheme investigated with the ^{39}K(p, γ)^{40}Ca reaction **A512**(1990)425
Kikstra, S.W., *see* Iliadis **A512**(1990)509
Kilcher, P., *see* Savard **A512**(1990)241
Kirchbach, M., R. Mach, D.O. Riska, The axial charge sum rule for complex nuclei **A511**(1990)592
Kiss, A.Z., *see* Tikkanen **A517**(1990)176
Kissener, H.R., *see* Goncharova **A516**(1990) 15
Kitagawa, A., *see* Minamisono **A516**(1990)365
Kitagawa, H., Translational invariance in the color dielectric model **A519**(1990)721
Kitipova, V., *see* Hüfner **A517**(1990)571
Klabučar, D., I. Picek, Vector and axial strangeness of the proton in a topological chiral bag model **A514**(1990)689
Klages, H.O., *see* Fink **A518**(1990)561
Klamra, W., *see* Hildingsson **A513**(1990)394
Klapdor-Kleingrothaus, H.V., *see* Mueller **A513**(1990) 1
Klein, A., N.R. Walet, Generalization of the quantized Bogoliubov-Valatin transformation and relation to the method of the vector coherent state: The case of U(3) **A515**(1990)207
Klimt, S., M. Lutz, U. Vogl, W. Weise, Generalized SU(3) Nambu-Jona-Lasinio model (I). Mesonic modes **A516**(1990)429
Klimt, S., *see* Vogl **A516**(1990)469
Kluge, H., *see* Venkova **A514**(1990) 87
Kluge, H., *see* Byrne **A516**(1990)145
Kluge, H., *see* Murzel **A516**(1990)189
Kluge, H., *see* Hübel **A520**(1990)125c
Kluge, H., *see* Eberth **A520**(1990)669c
Kneissl, U., *see* Degener **A513**(1990) 29
Knoll, J., *see* Barz **A519**(1990)479c
Knoll, J., *see* Barz **A519**(1990)831
Ko, C.M., *see* Xiong **A512**(1990)772
Koch, J.H., *see* Taal **A511**(1990)573
Koch, J.H., T. Takaki, Pion photoproduction and radiative capture on ^{13}C **A512**(1990)699
Koch, J.H., *see* Konijn **A519**(1990)773
Koch, V., *see* Weber **A515**(1990)747
Koch, V., *see* Cassing **A519**(1990)357c
Koczon, P., *see* Martinez **A515**(1990)433
Koepf, W., P. Ring, A relativistic theory of superdeformations in rapidly rotating nuclei **A511**(1990)279
Köhler, H.S., EOS from heavy-ion collisions and many-body theory **A519**(1990)259c
Kohlmeyer, B., *see* Von Neumann-Cosel **A516**(1990)385
Kohno, M., H. Tanabe, Pion-induced η production on nuclei **A519**(1990)755
Kohyama, Y., *see* Kuramoto **A512**(1990)711
Koide, K., *see* Takagui **A514**(1990)120
Koike, Y., K. Shimizu, K. Yazaki, Study of hyperon-nucleon and hyperon-hyperon interaction in the flip-flop model **A513**(1990)653
Kolata, J.J., *see* Warner **A516**(1990)416
Kolb, B.W., *see* Plasil **A519**(1990)449c
Kolnicki, G.W., *see* Rath **A515**(1990)338
Koltay, E., *see* Tikkanen **A517**(1990)176
Komatsubara, T., *see* Gascon **A513**(1990)344
Koncz, P., *see* Büchle **A515**(1990)541
Kong, X.J., *see* Warner **A516**(1990)416
Konijn, J., *see* Taal **A511**(1990)573
Konijn, J., C.T.A.M. de Laat, A. Taal, J.H. Koch, An improved parametrization of the optical potential for pionic atoms **A519**(1990)773
Korolija, M., N. Cindro, R. Čaplar, R.L. Auble, J.B. Ball, R.L. Robinson, Master-equation

analysis of proton spectra from ^{16}O- and ^{58}Ni-induced reactions **A516**(1990)133
Korten, W., *see* Henry **A520**(1990)115c
Korten, W., *see* Azaiez **A520**(1990)121c
Korten, W., *see* Becker **A520**(1990)187c
Kossionides, S., *see* Hildingsson **A513**(1990)394
Kostov, L.K., *see* Andrejtscheff **A516**(1990)157
Kotliński, B., *see* Rymuza **A517**(1990)159
Kotliński, B., D. Cline, A. Bäcklin, K.G. Helmer, A.E. Kavka, W.J. Kernan, E.G. Vogt, R.M. Diamond, A.O. Macchiavelli, M.A. Deleplanque, Coulomb excitation of ^{168}Er **A517**(1990)365
Kotliński, B., T. Czosnyka, D. Cline, J. Srebrny, C.Y. Wu, A. Bäcklin, L. Hasselgren, L. Westerberg, C. Baktash, S.G. Steadman, Heavy-ion Coulomb excitation of ^{72}Ge **A519**(1990)646
Kotlorz, A., *see* Kutschera **A516**(1990)566
Kovács, Zs., *see* Büchle **A515**(1990)541
Kownacki, J., *see* Tveter **A516**(1990) 1
Krämer-Flecken, A., *see* Venkova **A514**(1990) 87
Krämer-Flecken, A., *see* Hebbinghaus **A514**(1990)225
Kreiner, A.J., Double blocking in doubly odd deformed nuclei **A520**(1990)225c
Krewald, S., *see* Buballa **A517**(1990) 61
Krieger, S.J., P. Bonche, H. Flocard, P. Quentin, M.S. Weiss, An improved pairing interaction for mean field calculations using Skyrme potentials **A517**(1990)275
Krieger, S.J., *see* Bonche **A519**(1990)509
Kristiansson, P., *see* Plasil **A519**(1990)449c
Krmpotić, F., *see* Hirsch **A516**(1990)304
Krmpotić, F., *see* Mariano **A518**(1990)523
Krofcheck, D., *see* Westfall **A519**(1990)141c
Krupp, H., *see* Fink **A518**(1990)561
Kruppa, A.T., *see* Lovas **A516**(1990)325
Kruse, M.C., *see* Baxter **A515**(1990)493
Kubodera, K., *see* Kuramoto **A512**(1990)711
Kuhnert, A., *see* Murzel **A516**(1990)189
Kuhnert, A., *see* Henry **A520**(1990)115c
Kuhnert, A., *see* Azaiez **A520**(1990)121c
Kuhnert, A., *see* Becker **A520**(1990)187c
Kukulin, V.I., V.T. Voronchev, T.D. Kaipov, R.A. Eramzhyan, Detailed study of the cluster structure of light nuclei in a three-body model (III). Electromagnetic structure of ^{6}Li **A517**(1990)221
Kullander, S., Highlights of the European Muon Collaboration **A518**(1990)262
Kume, K., Near-threshold $(\vec{p}, \pi^-)$ reaction on ^{48}Ca **A511**(1990)701
Kunselman, R., J.D. Zumbro, E.B. Shera, M.V. Hoehn, Pionic-atom 3d2p X-ray measurements in ^{54,56}Fe, ^{59}Co and ^{58,60,61,62,64}Ni **A514**(1990)589
Kuramoto, T., M. Fukugita, Y. Kohyama, K. Kubodera, Neutrino-induced reaction cross sections at intermediate energies for chlorine and water detectors **A512**(1990)711
Kurepin, A.B., Production and decay of Δ isobars in nuclei **A519**(1990)395c
Kurepin, A.B., *see* Baldin **A519**(1990)407c
Kuriyama, A., *see* Yamamura **A514**(1990)461
Kuronen, A., *see* Tikkanen **A517**(1990)176
Kusnezov, D., *see* Kern **A512**(1990) 1
Kutsarova, T., *see* Hebbinghaus **A514**(1990)225
Kutsarova, T., *see* Bochev **A518**(1990)401
Kutschera, M., W. Broniowski, A. Kotlorz, Quark matter with pion condensate in an effective chiral model **A516**(1990)566
Kuznetsov, V.L., *see* Beda **A513**(1990) 53
Kwiatkowski, K., *see* Pollacco **A519**(1990)197c
Kyanowski, A., *see* Ardouin **A514**(1990)564
Lacey, R., *see* Westfall **A519**(1990)141c
Lampard, G.J., *see* Stuchbery **A516**(1990)119
Lanen, J.B.J.M., *see* Lovas **A516**(1990)325
Lang, A., *see* Weber **A515**(1990)747
Lang, A., *see* Cassing **A519**(1990)357c
Lange, H., Electromagnetic self-energy of proton and neutron in a chiral soliton model with vector mesons **A515**(1990)701
Lapik, A.M., *see* Glatky **A512**(1990)167
Larabee, A.J., *see* Nyberg **A511**(1990) 92
Larabee, A.J., *see* Carpenter **A513**(1990)125
Larrieu, P., *see* Busto **A513**(1990)291
Lassaut, M., N. Vinh Mau, *l*-dependent local potentials equivalent to a non-local potential **A518**(1990)441
Lauritzen, B., *see* Ormand **A519**(1990) 61c
Lauterbach, C., *see* Hughes **A512**(1990)275
Laville, J.L., *see* Durand **A511**(1990)442
Laville, J.L., *see* El Masri **A517**(1990)340
Laville, J.L., *see* Barbera **A518**(1990)767
Laville, J.L., *see* Barbera **A519**(1990)231c
Lawson, R.D., P.T. Guenther, A.B. Smith, Ambiguities in the elastic scattering of 8 MeV neutrons from adjacent nuclei **A519**(1990)487
Le Blanc, F., *see* Savard **A512**(1990)241
Lebrun, C., *see* Péter **A519**(1990)127c
Lebrun, C., *see* Péter **A519**(1990)611
Lebrun, D., *see* Braeunig **A519**(1990)631
Lebrun, M., *see* Deutsch **A518**(1990)149
Leccia, F., *see* Busto **A513**(1990)291
Lee, I.Y., *see* Nyberg **A511**(1990) 92
Lee, I.Y., *see* Carpenter **A513**(1990)125
Lee, I.Y., *see* Plasil **A519**(1990)449c
Lee, I.Y., *see* Nicolis **A520**(1990)153c
Lee, I.Y., *see* Baktash **A520**(1990)555c
Lee, I.Y., The GAMMASPHERE **A520**(1990)641c

Lee, J.K.P., *see* Savard **A512**(1990)241
Lee, S.M., *see* Péter **A519**(1990)127c
Lee, S.M., T. Nakagawa, B. Heusch, K. Yuasa-Nakagawa, Y.H. Pu, S.C. Jeong, H. Fujiwara, T. Mizota, K. Ieki, T. Sugimitsu, T. Matsuse, Effects of sequential decay in nuclear element distributions of complex fragments for $^{84}Kr+^{27}Al$ at 10.6 MeV/u **A519**(1990)221c
Lee, S.M., *see* Péter **A519**(1990)611
Lee, T.-S.H., *see* Fasano **A513**(1990)442
Lee, T.-S.H., *see* Nozawa **A513**(1990)459
Lee, T.-S.H., *see* Nozawa **A513**(1990)511
Lee, T.-S.H., *see* Nozawa **A513**(1990)543
Lee, Y.J., *see* Nuppenau **A511**(1990)525
Lefebvres, F., *see* Durand **A511**(1990)442
Lefebvres, F., *see* Ardouin **A514**(1990)564
Lefebvres, F., *see* Barbera **A518**(1990)767
Lefort, M., *see* Jacquet **A511**(1990)195
Legrain, R., *see* Péter **A519**(1990)127c
Legrain, R., *see* Pollacco **A519**(1990)197c
Legrain, R., *see* Péter **A519**(1990)611
Leino, M.E., *see* Äystö **A515**(1990)365
Lejeune, A., *see* Baldo **A515**(1990)409
Lemaire, M.-C., *see* L'Hôte **A519**(1990)331c
Lemberg, I.K.H., *see* Rotter **A514**(1990)401
Lenske, H., *see* Von Neumann-Cosel **A516**(1990)385
Lenz, U., *see* Skeppstedt **A511**(1990)137
Leoni, S., *see* Herskind **A520**(1990)539c
Leray, S., C. Ngô, M.E. Spina, B. Remaud, F. Sébille, A phenomenological dynamical model for nuclear multifragmentation **A511**(1990)414
Leroux, B., *see* Martinez **A515**(1990)433
LeTourneux, J., *see* Girard **A512**(1990)149
Levin, E.M., *see* Drukarev **A511**(1990)679
Lewenkopf, C.H., *see* Hüfner **A518**(1990)297
Lewitowicz, M., *see* Mueller **A513**(1990) 1
Lewitowicz, M., *see* Détraz **A519**(1990)529
L'Hôte, D., J. Gosset, M.-C. Lemaire, J. Poitou, J.-P. Alard, J. Augerat, R. Babinet, N. Bastid, F. Brochard, C. Cavata, P. Charmensat, M. Demoulins, P. Dupieux, L. Fraysse, P. Gorodetzky, B. Lucas, J. Marroncle, G. Montarou, M.J. Parizet, C. Racca, A. Rahmani, Y. Terrien, O. Valette, Collective flow and pion production at DIOGENE **A519**(1990)331c
L'Huillier, M., Nguyen Van Giai, N. Auerbach, Nuclear excitations in the relativistic random phase approximation **A519**(1990) 83c
Li, G.-Q., J.-Q. Shi, Q. Gao, The thermal self-consistent semiclassical approach and microscopic nucleon-nucleus optical potentials at finite temperature **A515**(1990)273
Li, T., *see* Westfall **A519**(1990)141c
Liang, C.F., P. Paris, R.K. Sheline, Reflection asymmetry in the near spherical nucleus, ^{219}Fr **A520**(1990)361c
Liang, Y., *see* Fossan **A520**(1990)241c
Liberman, S., *see* Savard **A512**(1990)241
Lieder, R.M., *see* Venkova **A514**(1990) 87
Lieder, R.M., *see* Hebbinghaus **A514**(1990)225
Lieder, R.M., *see* Bochev **A518**(1990)401
Lieder, R.M., Band crossing in the superdeformed band of ^{146}Gd **A520**(1990) 59c
Lieder, R.M., *see* Eberth **A520**(1990)669c
Liguori Neto, R., J.C. Acquadro, P.R.S. Gomes, A. Szanto de Toledo, C.F. Tenreiro, E. Crema, N. Carlin Filho, M.M. Coimbra, Fusion of $^{16}O+^{46,50}Ti$ near and below the Coulomb barrier **A512**(1990)333
Likar, A., *see* Håkansson **A512**(1990)399
Lilley, J.S., *see* Smithson **A517**(1990)193
Lin, W., B.D. Serot, Mid-range nucleon-nucleon interaction in the linear sigma model **A512**(1990)637
Lindblad, Th., *see* Hildingsson **A513**(1990)394
Lindén, C.G., *see* Hildingsson **A513**(1990)394
Lindholm, A., *see* Håkansson **A512**(1990)399
Lindholm, A., *see* Borghols **A515**(1990)173
Liotta, R.J., *see* Rydström **A512**(1990)217
Liotta, R.J., *see* Pomar **A515**(1990)381
Liran, S., *see* Ashktorab **A517**(1990) 27
Lisantti, J., D.K. McDaniels, Z. Tang, Z. Xu, D.M. Drake, K.H. Hicks, M.C. Vetterli, L.W. Swenson, X.Y. Chen, F. Farzanpay, Elastic and inelastic scattering of 280 and 489 MeV protons from ^{58}Ni **A511**(1990)643
Lisle, J.C., *see* Yu **A511**(1990)157
Lisle, J.C., *see* Riley **A520**(1990)279c
Lisle, J.C., D. Clarke, R. Chapman, F. Khazaie, J.N. Mo, H. Hübel, W. Schmitz, K. Theine, J.D. Garrett, G.B. Hagemann, B. Herskind, K. Schiffer, Lifetime measurements of high spin states in Yb nuclei **A520**(1990)451c
Lister, C.J., *see* Skeppstedt **A511**(1990)137
Lister, C.J., A survey of physics to be addressed using recoil mass separators **A520**(1990)677c
Liu, G., *see* Warner **A516**(1990)416
Liu, J., *see* Agodi **A515**(1990)524
Liu, Z.-H., *see* Zhang **A512**(1990)531
Liu, Z.-M., *see* Nyberg **A511**(1990) 92
Liu, Z.-M., *see* Carpenter **A513**(1990)125
Locher, M.P., M.E. Sainio, The pion-nucleon sigma term and threshold parameters **A518**(1990)201
Löhner, H., *see* Plasil **A519**(1990)449c

Lohse, D., J.W. Durso, K. Holinde, J. Speth, Meson exchange model for pseudoscalar meson-meson scattering **A516**(1990)513
Loiselet, M., *see* Naviliat-Cuncic **A514**(1990)145
Lombardo, U., *see* Baldo **A515**(1990)409
Lopac, V., *see* Andrejtscheff **A516**(1990)157
López, J.A., J. Randrup, Theory of nuclear multifragmentation (II). Post-transition dynamics **A512**(1990)345
Lotti, P., *see* Dasso **A514**(1990)161
Lourens, W., *see* Taal **A511**(1990)573
Louvel, M., *see* Péter **A519**(1990)127c
Louvel, M., *see* Péter **A519**(1990)611
Lovas, R.G., A.T. Kruppa, J.B.J.M. Lanen, Cluster-model interpretation of the ^{6}Li(e, e'p) reaction **A516**(1990)325
Lu, H., *see* Yao **A519**(1990)602
Lu, J., *see* Zhang **A512**(1990)531
Lucas, B., *see* L'Hôte **A519**(1990)331c
Ludwig, M., *see* Rose **A514**(1990)621
Lui, Y.-W., *see* Utsunomiya **A511**(1990)379
Lukyanov, S.M., *see* Mueller **A513**(1990) 1
Lund, I., *see* Plasil **A519**(1990)449c
Lutz, M., *see* Klimt **A516**(1990)429
Lutz, M., *see* Vogl **A516**(1990)469
Lutz, M., W. Weise, Sizes of hadrons **A518**(1990)156
Lynch, W.G., *see* Ardouin **A514**(1990)564
Lynen, U., The production of intermediate mass fragments at relativistic energies **A519**(1990)323c
Lyttkens, J., *see* Yu **A511**(1990)157
Ma, R., *see* Fossan **A520**(1990)241c
Ma, W.C., *see* Drigert **A515**(1990)466
Ma, W.H., *see* Huang **A518**(1990)717
Macchiavelli, A.O., *see* Kotliński **A517**(1990)365
Macchiavelli, A.O., *see* Etchegoyen **A518**(1990)572
Macciotta, M.P., *see* Agnello **A516**(1990)662
MacGrath, R., *see* Péter **A519**(1990)127c
MacGrath, R., *see* Péter **A519**(1990)611
MacGregor, I.J.D., *see* So **A517**(1990)473
Mach, R., *see* Kirchbach **A511**(1990)592
Machavariani, A.I., A.G. Rusetsky, On the field-theoretical formulation of the low-energy pion-nucleon scattering problem **A515**(1990)621
Machleidt, R., *see* Elsenhans **A515**(1990)715
Machner, H., *see* Hofmann **A512**(1990)669
Mackellar, A.D., *see* Nuppenau **A511**(1990)525
Mackintosh, R.S., *see* Cooper **A511**(1990) 29
Mackintosh, R.S., *see* Cooper **A513**(1990)373
Mackintosh, R.S., *see* Cooper **A517**(1990)285
Maggiora, A., *see* Bendiscioli **A518**(1990)683
Magiera, A., *see* Jarczyk **A518**(1990)583
Magnus, P.V., *see* Champagne **A512**(1990)317
Mahaux, C., R. Sartor, Dispersive versus constant-geometry models of the neutron-^{208}Pb mean field **A516**(1990)285
Maier, K.H., *see* Venkova **A514**(1990) 87
Maier, K.H., *see* Byrne **A516**(1990)145
Maier, K.H., *see* Murzel **A516**(1990)189
Maier, K.H., *see* Hübel **A520**(1990)125c
Maier, K.H., *see* Eberth **A520**(1990)669c
Maier, M., *see* Ardouin **A514**(1990)564
Maino, G., *see* Guidotti **A516**(1990) 41
Maiolino, C., *see* Agodi **A515**(1990)524
Maj, A., *see* Sletten **A520**(1990)325c
Maj, A., *see* Gaardhøje **A520**(1990)575c
Majka, Z., *see* Nicolis **A520**(1990)153c
Malik, S.S., *see* Khosla **A513**(1990)115
Mandrup, L., A.S. Jensen, A. Miranda, G.C. Oades, J. Carbonell, Protonium annihilation into two mesons **A512**(1990)591
Manfredi, V.R., *see* Centenaro **A519**(1990)109c
Mannanal, S.J., *see* Salicio **A512**(1990)109
Mannstadt, W., G. Grawert, Influence of neutron-transfer channels on Coulomb scattering of polarized ^{7}Li **A519**(1990)659
Maqueda, E.E., A. Vitturi, Cluster approach to the motion of α-like structures in a deformed field **A515**(1990)118
Marcello, S., *see* Agnello **A516**(1990)662
Mariano, A., J. Hirsch, F. Krmpotić, The role of three-particle-three-hole excitations in the Gamow-Teller nuclear response **A518**(1990)523
Markiel, W., *see* Hofmann **A512**(1990)669
Marroncle, J., *see* L'Hôte **A519**(1990)331c
Marshall, R., *see* Hofmann **A512**(1990)669
Martemyanov, A.N., *see* Beda **A513**(1990) 53
Marten-Tölle, M., *see* Hughes **A512**(1990)275
Martin, Ph., *see* Braeunig **A519**(1990)631
Martin, V., *see* El Masri **A517**(1990)340
Martinez, G., G. Barreau, A. Sicre, T.P. Doan, P. Audouard, B. Leroux, W. Arafa, R. Brissot, J.P. Bocquet, H. Faust, P. Koczon, M. Mutterer, F. Gönnenwein, M. Asghar, U. Quade, K. Rudolph, D. Engelhardt, E. Piasecki, Mass and nuclear charge yields for ^{237}Np($2n_{th}$, f) at different fission fragment kinetic energies **A515**(1990)433
Marumori, T., *see* Sakata **A519**(1990) 93c
Marx, M., *see* Büchle **A515**(1990)541
Marzari-Chiesa, A., Ultra-relativistic heavy ion physics at the CERN SPS: Results from HELIOS (NA34) **A519**(1990)435c
Masoni, A., *see* Agnello **A516**(1990)662
Mastroleo, R.C., *see* Hussein **A511**(1990)269
Matsuse, T., *see* Lee **A519**(1990)221c
Matsuta, K., *see* Minamisono **A516**(1990)365
Matsuzaki, M., Signature-dependent effects of gamma vibration on E2 transitions in rotating odd-*A* nuclei (II). Triaxial nuclei **A519**(1990)548

Maxwell, O.V., E.D. Cooper, Proton-induced nucleon knockout from ^{40}Ca in the Dirac impulse approximation **A513**(1990)584
Mazur, C., *see* Pollacco **A519**(1990)197c
McConnell, J.W., *see* Baktash **A520**(1990)555c
McDaniels, D.K., *see* Lisantti **A511**(1990)643
McGeorge, J.C., *see* Springham **A517**(1990) 93
McGimpsey, S., *see* Warner **A516**(1990)416
McGowan, F.K., *see* Nicolis **A520**(1990)153c
McGowan, F.K., *see* Baktash **A520**(1990)555c
McMahan, M.A., *see* Charity **A511**(1990) 59
Mdlalose, T.E., *see* Slaus **A515**(1990) 57
Mehta, D., *see* Hübel **A520**(1990)125c
Meier, J.H., *see* Borghols **A515**(1990)173
Meijer, R.J., *see* Bakkum **A511**(1990)117
Meirav, O., *see* Friedman **A514**(1990)601
Meissner, U.-G., *see* Kaiser **A515**(1990)648
Meissner, U.-G., *see* Kaiser **A519**(1990)671
Melezhik, V.S., *see* Bracci **A513**(1990)316
Mennrath, P., *see* Busto **A513**(1990)291
Merchant, A.C., *see* Buck **A512**(1990)483
Merchant, A.C., *see* Buck **A513**(1990) 75
Merdinger, J.C., *see* Zuber **A520**(1990)195c
Meyer, J., *see* Äystö **A515**(1990)365
Meyer, J., *see* Bonche **A519**(1990)509
Meyer, M., *see* Äystö **A515**(1990)365
Mezzorani, G., *see* Bracci **A513**(1990)316
Micheletti, S., *see* Blasi **A511**(1990)251
Micheletti, S., *see* Pignanelli **A519**(1990)567
Miczaika, A., *see* Braeunig **A519**(1990)631
Migdal, A.B., Phenomenology of QCD and hadron structure **A518**(1990)358
Migneco, E., *see* Agodi **A515**(1990)524
Miller, C.A., *see* Alford **A514**(1990) 49
Miller, G.A., *see* Henley **A518**(1990)207
Miller, G.A., Charge symmetry breaking **A518**(1990)345
Min, D.P., *see* Park **A517**(1990)561
Min, K., *see* So **A517**(1990)473
Minamisono, T., Y. Nojiri, K. Matsuta, K. Takeyama, A. Kitagawa, T. Ohtsubo, A. Ozawa, M. Izumi, Precision measurement of the magnetic moment of ^{41}Sc($I^\pi = \frac{7}{2}^-$, $T_{1/2} = 0.59$ s) and isoscalar g-factors of orbital and spin angular momenta **A516**(1990)365
Minetti, B., *see* Agnello **A516**(1990)662
Miranda, A., *see* Mandrup **A512**(1990)591
Mishin, A.S., *see* Rotter **A514**(1990)401
Mittig, W., *see* Ardouin **A514**(1990)564
Mittig, W., *see* Braeunig **A519**(1990)631
Miura, K., *see* Ohnuma **A514**(1990)273
Mizoguchi, M., H. Toki, Modification of pion-nucleon and kaon-nucleon scattering amplitudes in ^{12}C at $k = 0.8$ GeV/c **A513**(1990)685
Mizota, T., *see* Lee **A519**(1990)221c
Mo, J.N., *see* Yu **A511**(1990)157
Mo, J.N., *see* Hildingsson **A513**(1990)394
Mo, J.N., *see* Riley **A520**(1990)279c
Mo, J.N., *see* Lisle **A520**(1990)451c
Molinari, A., *see* Alberico **A512**(1990)541
Molinari, A., The nuclear response functions in inclusive processes **A518**(1990)329
Möller, P., J. Randrup, New developments in the calculation of β-strength functions **A514**(1990) 1
Möller, P., J.R. Nix, Global nuclear-structure calculations **A520**(1990)369c
Monaro, S., *see* Carpenter **A513**(1990)125
Monaro, S., *see* Pilotte **A514**(1990)545
Montarou, G., *see* L'Hôte **A519**(1990)331c
Moore, E.F., *see* Fernandez **A517**(1990)386
Moore, E.F., *see* Janssens **A520**(1990) 75c
Moore, E.F., *see* Carpenter **A520**(1990)133c
Moore, E.F., *see* Khoo **A520**(1990)169c
Morandin, M., *see* Agnello **A516**(1990)662
Morek, T., *see* Venkova **A514**(1990) 87
Moretto, L.G., *see* Charity **A511**(1990) 59
Moretto, L.G., Y. Blumenfeld, R.J. Charity, G.J. Wozniak, Binary and multifragment decay of very hot nuclei **A519**(1990)183c
Morimatsu, O., *see* Alexandrou **A518**(1990)723
Morita, M., *see* Doi **A511**(1990)507
Morsad, A., *see* Warner **A516**(1990)416
Mosconi, B., P. Ricci, Relativistic corrections in deuteron electrodisintegration at the quasi-elastic peak **A517**(1990)483
Moscrop, R., *see* Skeppstedt **A511**(1990)137
Mosel, U., *see* Kalmbach **A513**(1990)621
Mosel, U., *see* Weber **A515**(1990)747
Mosel, U., *see* Wolf **A517**(1990)615
Mosel, U., *see* Cassing **A519**(1990)357c
Mostovoii, Yu.A., *see* Beda **A513**(1990) 53
Motobayashi, T., *see* Péter **A519**(1990)127c
Motobayashi, T., *see* Péter **A519**(1990)611
Mottelson, B.R., Perspectives in the study of nuclear spectra: Oak Ridge 1990 **A520**(1990)711c
Moya de Guerra, E., *see* Retamosa **A511**(1990)221
Mueller, A.C., D. Guillemaud-Mueller, J.C. Jacmart, E. Kashy, F. Pougheon, A. Richard, A. Staudt, H.V. Klapdor-Kleingrothaus, M. Lewitowicz, R. Anne, P. Bricault, C. Détraz, Yu.E. Penionzhkevich, A.G. Artukh, A.V. Belozyorov, S.M. Lukyanov, D. Bazin, W.D. Schmidt-Ott, Measurement and QRPA calculation of the β-delayed neutron emission of ^{21,22}N and ^{23,24}O **A513**(1990) 1
Mueller, A.C., *see* Bazin **A515**(1990)349
Mueller, A.C., *see* Détraz **A519**(1990)529

Müller-Groeling, A., K. Holinde, J. Speth, K^-N interaction in the meson exchange framework **A513**(1990)557
Mullins, S.M., *see* Riley **A512**(1990)178
Mullins, S.M., *see* Hughes **A512**(1990)275
Mullins, S.M., *see* Cullen **A520**(1990)105c
Murphy, L.Y., *see* So **A517**(1990)473
Murzel, M., U. Birkental, K.P. Blume, S. Heppner, H. Hübel, J. Recht, W. Schmitz, K. Theine, H. Kluge, A. Kuhnert, K.H. Maier, G. Hebbinghaus, H. Schnare, Spectroscopy of ^{160}Hf **A516**(1990)189
Müsseler, R., *see* Byrne **A516**(1990)145
Musso, A., *see* Chivassa **A519**(1990)413c
Müther, H., *see* Henley **A513**(1990)667
Müther, H., *see* Skouras **A515**(1990) 93
Müther, H., *see* Elsenhans **A515**(1990)715
Müther, H., *see* Polls **A518**(1990)421
Mutterer, M., *see* Martinez **A515**(1990)433
Myers, W.D., *see* Chung **A513**(1990)283
Myers, W.D., *see* Wang **A514**(1990)322
Myklebost, K., *see* Bendiscioli **A518**(1990)683
Mylaeus, T., *see* Eberth **A520**(1990)669c
Nadasen, A., *see* Warner **A516**(1990)416
Nadasen, A., *see* Westfall **A519**(1990)141c
Nadon, N., *see* Pilotte **A514**(1990)545
Nagarajan, M.A., *see* Skouras **A516**(1990)255
Nagarajan, M.A., *see* Smithson **A517**(1990)193
Nagashima, Y., *see* Péter **A519**(1990)127c
Nagashima, Y., *see* Péter **A519**(1990)611
Nakagawa, T., *see* Ohnuma **A514**(1990)273
Nakagawa, T., *see* Péter **A519**(1990)127c
Nakagawa, T., *see* Lee **A519**(1990)221c
Nakagawa, T., *see* Péter **A519**(1990)611
Nakano, K., Relativistic approach to the nuclear European Muon Collaboration effect **A511**(1990)664
Nanda, S.K., *see* Ohnuma **A514**(1990)273
Nann, H., *see* Woldt **A518**(1990)496
Naqvi, H.A., J.P. Draayer, Shell-model operator for *K*-band splitting **A516**(1990)351
Naviliat-Cuncic, O., M. Loiselet, J. Vervier, Lifetime measurements in ^{129,131}Xe **A514**(1990)145
Navrotsky, M.A., *see* Kharchenko **A512**(1990)294
Nayak, R.C., J.M. Pearson, M. Farine, P. Gleissl, M. Brack, Leptodermous expansion of finite-nucleus incompressibility **A516**(1990) 62
Nazarewicz, W., *see* Wyss **A511**(1990)324
Nazarewicz, W., M.A. Riley, J.D. Garrett, Equilibrium deformations and excitation energies of single-quasiproton band heads of rare-earth nuclei **A512**(1990) 61
Nazarewicz, W., *see* Riley **A512**(1990)178
Nazarewicz, W., *see* Carpenter **A513**(1990)125
Nazarewicz, W., *see* Vergnes **A514**(1990)381
Nazarewicz, W., *see* Cullen **A520**(1990)105c
Nazarewicz, W., Low-energy octupole and dipole modes in nuclei **A520**(1990)333c
Neise, L., M. Berenguer, C. Hartnack, G. Peilert, H. Stöcker, W. Greiner, Quantum molecular dynamics – A model for nucleus-nucleus collisions from medium to high energies **A519**(1990)375c
Nemes, M.C., *see* Hüfner **A518**(1990)297
Ngô, C., *see* Leray **A511**(1990)414
Nguyen Van Giai, *see* L'Huillier **A519**(1990) 83c
Nicolis, N.G., D.G. Sarantites, C. Baktash, V. Abenante, L.A. Adler, J.R. Beene, F.A. Dilmanian, G. Garcia-Bermudez, H.C. Griffin, M.L. Halbert, D.C. Hensley, N.R. Johnson, I.Y. Lee, Z. Majka, F.K. McGowan, M.A. Riley, T.M. Semkow, D.W. Stracener, A. Virtanen, Alpha-particle emission as a probe of nuclear shapes and structure effects in proton evaporation spectra **A520**(1990)153c
Nieves, J., E. Oset, Production of pionic atoms in (n, p) reactions **A518**(1990)617
Niita, K., *see* Wolf **A517**(1990)615
Niita, K., *see* Cassing **A519**(1990)357c
Nilsson, L., *see* Håkansson **A512**(1990)399
Nilsson, L., *see* Borghols **A515**(1990)173
Nisimura, K., *see* Ohnuma **A514**(1990)273
Nitschke, J.M., Future physics with a proposed radioactive beam facility in the United States **A520**(1990)699c
Nix, J.R., *see* Möller **A520**(1990)369c
Nojarov, R., *see* Faessler **A515**(1990)237
Nojiri, Y., *see* Minamisono **A516**(1990)365
Nolan, P.J., EUROGAM – A high efficiency escape suppressed spectrometer array **A520**(1990)657c
Norbeck, E., *see* Pollacco **A519**(1990)197c
Nörenberg, W., *see* Chanfray **A519**(1990)311c
Nörenberg, W., *see* Cubero **A519**(1990)345c
Norlin, L.O., *see* Rotter **A514**(1990)401
Nowakowski, M., *see* Decker **A512**(1990)626
Nozawa, S., B. Blankleider, T.-S.H. Lee, A dynamical model of pion photoproduction on the nucleon **A513**(1990)459
Nozawa, S., T.-S.H. Lee, Electroproduction of pions on the nucleon (I) **A513**(1990)511
Nozawa, S., T.-S.H. Lee, Electroproduction of pions on the nucleon (II). Polarization observables **A513**(1990)543
Nuppenau, C., A.D. Mackellar, Y.J. Lee, Study of nucleon–nucleus scattering based on the relativistic

Brueckner-Bethe-Goldstone equation **A511**(1990)525
Nyberg, J., A. Johnson, M.P. Carpenter, C.R. Bingham, L.H. Courtney, V.P. Janzen, S. Juutinen, A.J. Larabee, Z.-M. Liu, L.L. Riedinger, C. Baktash, M.L. Halbert, N.R. Johnson, I.Y. Lee, Y. Schutz, J.C. Waddington, D.G. Popescu, High-spin states in ^{183}Pt **A511**(1990) 92
Nyberg, J., *see* Carpenter **A513**(1990)125
Nyberg, J., *see* Gascon **A513**(1990)344
Nyberg, J., *see* Sletten **A520**(1990)325c
Nyman, G., *see* Borge **A515**(1990) 21
Oades, G.C., *see* Mandrup **A512**(1990)591
Obenshain, F.E., *see* Plasil **A519**(1990)449c
Obert, J., *see* Savard **A512**(1990)241
Oelert, W., *see* Jarczyk **A518**(1990)583
Oelfke, U., P.U. Sauer, F. Coester, Convolution models of deep inelastic scattering: The three-nucleon bound states as a test case **A518**(1990)593
Ogaza, S., *see* Gascon **A513**(1990)344
Ogihara, M., *see* Péter **A519**(1990)127c
Ogihara, M., *see* Péter **A519**(1990)611
Ogilvie, C.A., *see* Westfall **A519**(1990)141c
Ohnuma, H., N. Hoshino, K. Ieki, M. Iwase, H. Shimizu, H. Toyokawa, T. Hasegawa, K. Nisimura, M. Yasue, H. Kabasawa, T. Nakagawa, T. Tohei, H. Orihara, S.I. Hayakawa, K. Miura, T. Suehiro, S.K. Nanda, D. Dehnhard, M.A. Franey, The ^{16}O($\vec{p}$, p′) reaction at 35 MeV **A514**(1990)273
Ohta, K., Quantum theory of the soliton in a nonrigid gauge **A511**(1990)620
Ohtsubo, H., *see* Doi **A511**(1990)507
Ohtsubo, T., *see* Minamisono **A516**(1990)365
Okabe, S., T. Harada, Y. Akaishi, Light Σ-hypernuclei and α-clustering **A514**(1990)613
Olsen, J.M., *see* Bendiscioli **A518**(1990)683
Olsson, N., *see* Håkansson **A512**(1990)399
Olsson, N., E. Ramström, B. Trostell, Neutron elastic and inelastic scattering from Mg, Si, S, Ca, Cr, Fe and Ni at E_n = 21.6 MeV **A513**(1990)205
Olsson, N., *see* Borghols **A515**(1990)173
Oms, J., *see* Savard **A512**(1990)241
Orihara, H., *see* Ohnuma **A514**(1990)273
Ormand, W.E., P.F. Bortignon, R.A. Broglia, T. Døssing, B. Lauritzen, Time-dependent thermal fluctuations and the giant-dipole resonance in hot, rotating nuclei **A519**(1990) 61c
Ormand, W.E., A. Bracco, P.F. Bortignon, R.A. Broglia, Limiting temperatures for collective motion in nuclei **A520**(1990)595c
Ortner, H.-W., *see* Jäkel **A511**(1990)733
Oset, E., *see* Nieves **A518**(1990)617
Oskarsson, A., *see* Plasil **A519**(1990)449c
Otterlund, I., *see* Plasil **A519**(1990)449c
Ottewell, D., *see* Rui **A517**(1990)455
Owens, R.O., *see* So **A517**(1990)473
Ozawa, A., *see* Minamisono **A516**(1990)365
Paar, V., *see* Andrejtscheff **A516**(1990)157
Pacati, F.D., *see* Boffi **A518**(1990)639
Pacheco, J.C., *see* Ferrero **A514**(1990)367
Paetz Gen. Schieck, H., *see* Böhm **A518**(1990) 58
Palmeri, A., *see* Durand **A511**(1990)442
Palmeri, A., *see* Barbera **A518**(1990)767
Palmeri, A., *see* Barbera **A519**(1990)231c
Pandharipande, V.R., T.J. Schlagel, Studies of the Vlasov-Boltzman equation **A519**(1990)157c
Pantaleo, A., *see* Charity **A511**(1990) 59
Pantuev, V.S., *see* Baldin **A519**(1990)407c
Panzieri, D., *see* Bendiscioli **A518**(1990)683
Papadopoulos, C.T., *see* Hildingsson **A513**(1990)394
Papadopoulos, C.T., *see* Xenoulis **A516**(1990)108
Papp, G., *see* Jaqaman **A514**(1990)327
Pappalardo, G.S., *see* Durand **A511**(1990)442
Pappalardo, G.S., *see* Barbera **A518**(1990)767
Pappalardo, G.S., *see* Barbera **A519**(1990)231c
Pari, G., *see* Holzwarth **A515**(1990)665
Paris, P., *see* Liang **A520**(1990)361c
Parizet, M.J., *see* L'Hôte **A519**(1990)331c
Park, B.-Y., V. Vento, Gluonic contributions in the chiral hyperbag **A513**(1990)413
Park, B.-Y., D.P. Min, M. Rho, Strange component in the magnetic moment of the proton **A517**(1990)561
Parmonen, J.M., *see* Äystö **A515**(1990)365
Parnell, G.E., *see* Ernst **A518**(1990)658
Patry, J.P., *see* Durand **A511**(1990)442
Patry, J.P., *see* Barbera **A518**(1990)767
Patry, J.P., *see* Péter **A519**(1990)127c
Patry, J.P., *see* Péter **A519**(1990)611
Paul, E.S., *see* Fossan **A520**(1990)241c
Paulus, G., *see* Iliadis **A512**(1990)509
Paulus, G., *see* Seuthe **A514**(1990)471
Pavan, M., *see* Rui **A517**(1990)455
Pearson, J.M., *see* Nayak **A516**(1990) 62
Peaslee, G.F., *see* Jacquet **A511**(1990)195
Péghaire, A., *see* Ardouin **A514**(1990)564
Péghaire, A., *see* Péter **A519**(1990)127c
Péghaire, A., *see* Péter **A519**(1990)611
Peilert, G., *see* Neise **A519**(1990)375c
Peitzmann, T., *see* Plasil **A519**(1990)449c
Penionzhkevich, Yu.E., *see* Mueller **A513**(1990) 1
Penttilä, H., *see* Äystö **A515**(1990)365
Peres Menezes, D., N. Yoshinaga, Selection of collective degrees of freedom in the boson space **A517**(1990)264

Perez, S.M., *see* Buck **A512**(1990)483
Perez-Mendez, V., *see* Shor **A514**(1990)717
Persson, S., *see* Plasil **A519**(1990)449c
Péter, J., *see* Ardouin **A514**(1990)564
Péter, J., *see* El Masri **A517**(1990)340
Péter, J., J.P. Sullivan, D. Cussol, G. Bizard, R. Brou, M. Louvel, J.P. Patry, R. Régimbart, J.C. Steckmeyer, B. Tamain, E. Crema, H. Doubre, K. Hagel, G.M. Jin, A. Péghaire, F. Saint-Laurent, Y. Cassagnou, R. Legrain, C. Lebrun, E. Rosato, R. MacGrath, S.C. Jeong, S.M. Lee, Y. Nagashima, T. Nakagawa, M. Ogihara, J. Kasagi, T. Motobayashi, Exclusive study of nucleus-nucleus reactions at intermediate energies: Impact parameter dependence of pre-equilibrium emission, collective flow and hot nuclei formation **A519**(1990)127c
Péter, J., D. Cussol, G. Bizard, R. Brou, M. Louvel, J.P. Patry, R. Régimbart, J.C. Steckmeyer, J.P. Sullivan, B. Tamain, E. Crema, H. Doubre, K. Hagel, G.M. Jin, A. Péghaire, F. Saint-Laurent, Y. Cassagnou, R. Legrain, C. Lebrun, E. Rosato, R. MacGrath, S.G. Jeong, S.M. Lee, Y. Nagashima, T. Nakagawa, M. Ogihara, J. Kasagi, T. Motobayashi, Global variables and impact parameter determination in nucleus–nucleus collisions below 100 MeV/u **A519**(1990)611
Pethick, C.J., *see* Heiselberg **A519**(1990)279c
Petkov, P., *see* Andrejtscheff **A516**(1990)157
Petković, T., *see* Steinacher **A517**(1990)413
Petrovici, A., K.W. Schmid, F. Grümmer, A. Faessler, Some new aspects of the shape coexistence in the $A = 70$ mass region **A517**(1990)108
Piasecki, E., *see* Martinez **A515**(1990)433
Piattelli, P., *see* Agodi **A515**(1990)524
Piccotti, A., *see* Chivassa **A519**(1990)413c
Picek, I., *see* Klabučar **A514**(1990)689
Pickup, B.T., P. Winkler, The Siegert matrix expansion for S-wave resonances of non-smooth potentials **A519**(1990)521
Piekarewicz, J., *see* Horowitz **A511**(1990)461
Piekarewicz, J., Vacuum polarization effects on the electromagnetic response of low-lying isoscalar excitations **A511**(1990)487
Pignanelli, M., *see* Blasi **A511**(1990)251
Pignanelli, M., *see* Bracco **A519**(1990) 47c
Pignanelli, M., N. Blasi, S. Micheletti, R. De Leo, M.A. Hofstee, J.M. Schippers, S.Y. van der Werf, M.N. Harakeh, Octupole excitations in vibrational nuclei and the sdf interacting boson model **A519**(1990)567
Piiparinen, M., *see* Drigert **A515**(1990)466
Pilotte, S., *see* Carpenter **A513**(1990)125
Pilotte, S., S. Flibotte, S. Monaro, N. Nadon, D. Prévost, P. Taras, H.R. Andrews, D. Horn, V.P. Janzen, D.C. Radford, D. Ward, J.K. Johansson, J.C. Waddington, T.E. Drake, A. Galindo-Uribarri, R. Wyss, Rotational bands and shape changes in ^{124}Ba **A514**(1990)545
Pilotte, S., *see* Fernandez **A517**(1990)386
Pinard, J., *see* Savard **A512**(1990)241
Pintye, E., *see* Tikkanen **A517**(1990)176
Piragino, G., *see* Bendiscioli **A518**(1990)683
Piragino, R., *see* Bendiscioli **A518**(1990)683
Pitz, H.H., *see* Degener **A513**(1990) 29
Planeta, R., *see* Pollacco **A519**(1990)197c
Plasil, F., R. Albrecht, T.C. Awes, C. Baktash, P. Beckmann, F. Berger, R. Bock, G. Claesson, G. Clewing, L. Dragon, A. Eklund, R.L. Ferguson, A. Franz, S. Garpman, R. Glasow, H.A. Gustafsson, H.H. Gutbrod, J. Idh, P. Jacobs, K.H. Kampert, B.W. Kolb, P. Kristiansson, I.Y. Lee, H. Löhner, I. Lund, F.E. Obenshain, A. Oskarsson, I. Otterlund, T. Peitzmann, S. Persson, A.M. Poskanzer, M. Purschke, H.G. Ritter, S. Saini, R. Santo, H.R. Schmidt, T. Siemiarczuk, S.P. Sorensen, K. Steffens, E. Stenlund, D. Stüken, M.L. Tincknell, G.R. Young, Nucleus–nucleus collisions at 60 to 200 GeV/nucleon: results from the WA80 experiment at CERN **A519**(1990)449c
Plastino, A., *see* Canosa **A512**(1990)492
Plendl, H.S., *see* Hofmann **A512**(1990)669
Pochodzalla, J., *see* Ardouin **A514**(1990)564
Poitou, J., *see* L'Hôte **A519**(1990)331c
Poletti, A.R., *see* Baxter **A515**(1990)493
Poletti, A.R., *see* Dracoulis **A520**(1990)353c
Pollacco, E.C., C. Volant, R. Dayras, Y. Cassagnou, S. Harar, R. Legrain, C. Mazur, S.J. Yennello, K. Kwiatkowski, N.R. Yoder, V.E. Viola, R. Planeta, J.L. Wile, D.F. Fields, E. Hourani, E. Norbeck, Search for the onset of multifragmentation in the reaction ^{3}He + ^{nat}Ag **A519**(1990)197c
Polls, A., A. Ramos, H. Müther, Effective interaction for the shell model in the 1p0f shell **A518**(1990)421

Pomar, C., *see* Rydström **A512**(1990)217
Pomar, C., J. Blomqvist, R.J. Liotta, A. Insolia, Analysis of two- and four-quasiparticle states in lead isotopes **A515**(1990)381
Ponomarev, V., *see* Voronov **A520**(1990)619c
Pontecorvo, G.B., *see* Bendiscioli **A518**(1990)683
Popescu, D.G., *see* Nyberg **A511**(1990) 92
Popescu, D.G., *see* Carpenter **A513**(1990)125
Poskanzer, A.M., *see* Plasil **A519**(1990)449c
Pougheon, F., *see* Mueller **A513**(1990) 1
Pougheon, F., *see* Détraz **A519**(1990)529
Pourang, R., *see* Alford **A514**(1990) 49
Poves, A., *see* Retamosa **A511**(1990)221
Poynter, R., *see* Cullen **A520**(1990)105c
Poynter, R.J., *see* Riley **A512**(1990)178
Poynter, R.J., *see* Hughes **A512**(1990)275
Prade, H., *see* Rotter **A514**(1990)401
Pravikoff, M.S., *see* Détraz **A519**(1990)529
Prévost, D., *see* Pilotte **A514**(1990)545
Prieels, R., *see* Deutsch **A518**(1990)149
Prokhvatilov, M.A., *see* Baldin **A519**(1990)407c
Protić, D., *see* Hofmann **A512**(1990)669
Pu, Y.H., *see* Lee **A519**(1990)221c
Puddu, G., *see* Agnello **A516**(1990)662
Purschke, M., *see* Plasil **A519**(1990)449c
Putaux, J.C., *see* Savard **A512**(1990)241
Qi, B., *see* Yao **A519**(1990)602
Quade, U., *see* Martinez **A515**(1990)433
Quader, M., *see* Drigert **A515**(1990)466
Quarati, P., *see* Bracci **A513**(1990)316
Québert, J., *see* Ardouin **A514**(1990)564
Quentin, P., *see* Krieger **A517**(1990)275
Racca, C., *see* L'Hôte **A519**(1990)331c
Radford, D.C., *see* Gascon **A513**(1990)344
Radford, D.C., *see* Pilotte **A514**(1990)545
Radford, D.C., *see* Drigert **A515**(1990)466
Radici, M., *see* Boffi **A518**(1990)639
Răduţă, A.A., D.S. Delion, The description of the collective M1 properties of the even-odd nuclei **A513**(1990) 11
Radutsky, G.M., V.V. Zakharov, Pion photoproduction on nucleons from threshold to E_γ = 230 MeV **A518**(1990)709
Ragnarsson, I., Transition energies in superdeformed bands – Dependence on orbital and deformation **A520**(1990) 67c
Rahmani, A., *see* L'Hôte **A519**(1990)331c
Ramos, A., *see* Polls **A518**(1990)421
Ramström, E., *see* Olsson **A513**(1990)205
Randrup, J., *see* López **A512**(1990)345
Randrup, J., *see* Möller **A514**(1990) 1
Randrup, J., B. Remaud, Fluctuations in one-body dynamics **A514**(1990)339
Rapaport, J., *see* Wang **A517**(1990)301
Rapisarda, A., *see* Agodi **A515**(1990)524
Rassadin, L.A., *see* Rotter **A514**(1990)401
Rath, D.P., R.N. Boyd, H.J. Hausman, M.S. Islam, G.W. Kolnicki, ^{7}Li(^{3}He, p)^{9}Be reaction and primordial nucleosynthesis **A515**(1990)338
Ratner, B.S., *see* Glatky **A512**(1990)167
Rau, G., *see* Woldt **A518**(1990)496
Rauprich, G., *see* Böhm **A518**(1990) 58
Ravenhall, D.G., *see* Heiselberg **A519**(1990)279c
Ravn, H., *see* Seuthe **A514**(1990)471
Rawas, E.M.E., *see* Sen Gupta **A512**(1990) 97
Rawas, E.M.E., *see* Sen Gupta **A517**(1990) 82
Ray, A., *see* Utsunomiya **A511**(1990)379
Razin, V.I., *see* Baldin **A519**(1990)407c
Recht, J., *see* Murzel **A516**(1990)189
Reckenfelderbäumer, R., *see* Böhm **A518**(1990) 58
Redon, N., *see* Äystö **A515**(1990)365
Regan, P., *see* Cullen **A520**(1990)105c
Régimbart, R., *see* El Masri **A517**(1990)340
Régimbart, R., *see* Péter **A519**(1990)127c
Régimbart, R., *see* Péter **A519**(1990)611
Reidy, J.J., *see* Hofmann **A512**(1990)669
Reinhardt, R., *see* Wrzesiński **A515**(1990)297
Rekstad, J., *see* Tveter **A516**(1990) 1
Remaud, B., *see* Leray **A511**(1990)414
Remaud, B., *see* Randrup **A514**(1990)339
Remaud, B., *see* Ardouin **A514**(1990)564
Rentería, M., *see* Etchegoyen **A518**(1990)572
Reshetin, A.I., *see* Baldin **A519**(1990)407c
Retamosa, J., J.M. Udías, A. Poves, E. Moya de Guerra, 1^+ excitations in light nuclei: SU(3) versus realistic shell model results **A511**(1990)221
Reviol, W., *see* Fernandez **A517**(1990)386
Reviol, W., *see* Janssens **A520**(1990) 75c
Rho, M., *see* Park **A517**(1990)561
Ricci, P., *see* Mosconi **A517**(1990)483
Richard, A., *see* Mueller **A513**(1990) 1
Richard, A., *see* Détraz **A519**(1990)529
Richert, J., P. Wagner, Sequential decay of excited nuclei and characteristic features of nuclear fragmentation **A517**(1990)399
Richert, J., P. Wagner, Sequential decay of excited nuclei and properties of nuclear fragmentation **A519**(1990)203c
Richter, A., *see* Engel **A515**(1990) 31
Richter, A., *see* Von Neumann-Cosel **A516**(1990)385
Richter, A., *see* Hansen **A518**(1990) 13
Richter, A., *see* Harney **A518**(1990) 35
Ricken, L., K. Bodek, A. Szczurek, The first excited state of ^{8}Be studied in the ^{7}Li(p, γ)^{8}Be reaction **A515**(1990)226
Riedinger, L.L., *see* Nyberg **A511**(1990) 92
Riedinger, L.L., *see* Carpenter **A513**(1990)125
Riedinger, L.L., H.-Q. Jin, C.-H. Yu, Intruder $\pi h_{9/2}$ and $\pi i_{13/2}$ bands in Re and Ir nuclei **A520**(1990)287c
Riepe, G., *see* Hofmann **A512**(1990)669

Riess, F., *see* Baxter **A515**(1990)493
Riggi, F., *see* Barbera **A519**(1990)231c
Riisager, K., *see* Borge **A515**(1990) 21
Riley, M.A., *see* Nazarewicz **A512**(1990) 61
Riley, M.A., D.M. Cullen, A. Alderson, I. Ali, P. Fallon, P.D. Forsyth, F. Hanna, S.M. Mullins, J.W. Roberts, J.F. Sharpey-Schafer, P.J. Twin, R.J. Poynter, R. Wadsworth, M.A. Bentley, A.M. Bruce, J. Simpson, G. Sletten, W. Nazarewicz, T. Bengtsson, R. Wyss, Multiple superdeformed bands in ^{194}Hg and their dynamical moments of inertia **A512**(1990)178
Riley, M.A., *see* Cullen **A520**(1990)105c
Riley, M.A., *see* Nicolis **A520**(1990)153c
Riley, M.A., J.W. Roberts, J. Simpson, A. Alderson, I. Ali, D.M. Cullen, P. Fallon, P.D. Forsyth, J.F. Sharpey-Schafer, M.A. Bentley, A.M. Bruce, R. Chapman, J.C. Lisle, J.N. Mo, The unpaired spectroscopy of ^{161,162}Er at spins up to 50$\hbar$ **A520**(1990)279c
Ring, P., *see* Koepf **A511**(1990)279
Riska, D.O., *see* Kirchbach **A511**(1990)592
Risse, F., *see* Taal **A511**(1990)573
Ritter, H.G., *see* Plasil **A519**(1990)449c
Rivet, M., *see* El Masri **A517**(1990)340
Rivet, M.F., *see* Jacquet **A511**(1990)195
Rizzini, E.L., *see* Bendiscioli **A518**(1990)683
Roberts, J.W., *see* Riley **A512**(1990)178
Roberts, J.W., *see* Gascon **A513**(1990)344
Roberts, J.W., *see* Cullen **A520**(1990)105c
Roberts, J.W., *see* Riley **A520**(1990)279c
Robertson, B.C., *see* Virtue **A517**(1990)509
Robertson, J.L., *see* Kellie **A515**(1990)125
Robinson, R.L., *see* Korolija **A516**(1990)133
Robledo, L.M., *see* Egido **A518**(1990)475
Rolfs, C., *see* Iliadis **A512**(1990)509
Rolfs, C., *see* Seuthe **A514**(1990)471
Rollefson, A.A., *see* Warner **A516**(1990)416
Romain, P., *see* Zuber **A520**(1990)195c
Rosato, E., *see* Durand **A511**(1990)442
Rosato, E., *see* Barbera **A518**(1990)767
Rosato, E., *see* Péter **A519**(1990)127c
Rosato, E., *see* Barbera **A519**(1990)231c
Rosato, E., *see* Péter **A519**(1990)611
Rose, K.W., B. Zurmühl, P. Rullhusen, M. Ludwig, A. Baumann, M. Schumacher, J. Ahrens, A. Zieger, D. Christmann, B. Ziegler, Quasi-free Compton scattering by the neutron **A514**(1990)621
Rösel, Ch.F.G., *see* Taal **A511**(1990)573
Rosengård, U., *see* Rotter **A514**(1990)401
Roser, H.W., *see* Virtue **A517**(1990)509
Rossignoli, R., *see* Canosa **A512**(1990)492
Rössle, E., *see* Büchle **A515**(1990)541
Rotbard, G., *see* Vergnes **A514**(1990)381
Rotondi, A., *see* Bendiscioli **A518**(1990)683
Rotter, H., J. Döring, L. Funke, L. Käubler, H. Prade, R. Schwengner, G. Winter, A.E. Zobov, A.P. Grinberg, I.K.H. Lemberg, A.S. Mishin, L.A. Rassadin, I.N. Chugunov, A.D. Efimov, K.I. Erokhina, V.I. Isakov, L.O. Norlin, U. Rosengård, Yrast spectroscopy of the $N=48$ nucleus ^{84}Kr **A514**(1990)401
Roussiere, B., *see* Savard **A512**(1990)241
Rowe, D.J., *see* Arickx **A511**(1990) 49
Roy, N., *see* Becker **A520**(1990)187c
Rozhdestvensky, A.M., *see* Bendiscioli **A518**(1990)683
Rozon, F.M., *see* Rui **A517**(1990)455
Ruan, M., *see* Zhang **A512**(1990)531
Ruan, W.-Y., *see* Tan **A514**(1990)295
Rubel, E., *see* Henry **A520**(1990)115c
Rubel, E., *see* Azaiez **A520**(1990)121c
Rudolph, K., *see* Martinez **A515**(1990)433
Rui, R., P. Camerini, N. Grion, R.R. Johnson, M. Pavan, F.M. Rozon, V. Sossi, D. Ottewell, G. Sheffer, G. Smith, N.R. Stevenson, M.J. Vicente-Vacas, $\pi^+\pi^-$ coincidence measurement in the $\pi^+ d \to \pi^+\pi^- pp$ reaction at $T_{\pi^+} =$ 280 MeV **A517**(1990)455
Rulla, W.F., *see* Warner **A516**(1990)416
Rullhusen, P., *see* Rose **A514**(1990)621
Rusetsky, A.G., *see* Machavariani **A515**(1990)621
Russo, G., *see* Agodi **A515**(1990)524
Russo, G., *see* Bonasera **A519**(1990)211c
Russo, G., *see* Barbera **A519**(1990)231c
Ryde, H., *see* Yu **A511**(1990)157
Rydström, L., J. Blomqvist, R.J. Liotta, C. Pomar, Structure of proton-deficient nuclei near ^{208}Pb **A512**(1990)217
Rymuza, P., D. Chmielewska, Z. Sujkowski, G.J. Balster, B. Kotliński, R.H. Siemssen, H.W. Wilschut, K-shell ionization induced by 4.5 MeV/u ^{40}Ar ions undergoing fusion reactions **A517**(1990)159
Rzehorz, B., *see* Steinacher **A517**(1990)413
Saini, S., *see* Plasil **A519**(1990)449c
Sainio, M.E., *see* Locher **A518**(1990)201
Saint-Laurent, F., *see* Ardouin **A514**(1990)564
Saint-Laurent, F., *see* Péter **A519**(1990)127c
Saint-Laurent, F., *see* Péter **A519**(1990)611
Saint-Laurent, M.G., *see* Bazin **A515**(1990)349
Sakata, F., T. Marumori, Y. Hashimoto, Y. Yamamoto, H. Tsukuma, K. Iwasawa, Nuclear spectroscopy and quantum chaos **A519**(1990) 93c
Salicio, J.L., M. Délèze, S. Drissi,

J. Kern, S.J. Mannanal, J.P. Vorlet, I. Hamamoto, Electromagnetic properties of high-K rotational bands in the odd-odd ^{160}Ho nucleus **A512**(1990)109
Salpeter, E.E., *see* Bildsten **A516**(1990) 77
Salvini, P., *see* Bendiscioli **A518**(1990)683
Salvisberg, P., *see* Steinacher **A517**(1990)413
Samaddar, S.K., *see* Bandyopadhyay **A511**(1990) 1
Samanta, C., *see* Bandyopadhyay **A511**(1990) 1
Sandhas, W., *see* Slaus **A515**(1990) 57
Santo, R., *see* Plasil **A519**(1990)449c
Santos, D., *see* Zuber **A520**(1990)195c
Santra, A.B., *see* Jain **A519**(1990)697
Sapienza, P., *see* Agodi **A515**(1990)524
Saporetti, F., *see* Guidotti **A516**(1990) 41
Sapozhnikov, M.G., *see* Bendiscioli **A518**(1990)683
Sarantites, D.G., *see* Carpenter **A513**(1990)125
Sarantites, D.G., *see* Nicolis **A520**(1990)153c
Sartor, R., *see* Mahaux **A516**(1990)285
Satchler, G.R., *see* Takagui **A514**(1990)120
Satchler, G.R., *see* Jarczyk **A518**(1990)583
Sato, T., *see* Doi **A511**(1990)507
Satuła, W., *see* Wyss **A511**(1990)324
Satuła, W., *see* Cullen **A520**(1990)105c
Sauer, P.U., *see* Oelfke **A518**(1990)593
Sauerwein, C., *see* Büchle **A515**(1990)541
Sauvage, J., *see* Savard **A512**(1990)241
Savard, G., J.E. Crawford, J.K.P. Lee, G. Thekkadath, H.T. Duong, J. Pinard, S. Liberman, F. Le Blanc, P. Kilcher, J. Obert, J. Oms, J.C. Putaux, B. Roussiere, J. Sauvage, Laser spectroscopy of laser-desorbed gold isotopes **A512**(1990)241
Scarlassara, F., *see* Fernandez **A517**(1990)386
Schacht, H., *see* Degener **A513**(1990) 29
Schäfer, M., *see* Wolf **A517**(1990)615
Schäfer, T., *see* Kalmbach **A513**(1990)621
Schäffler-Kräh, J., *see* Venkova **A514**(1990) 87
Schange, Th., *see* Iliadis **A512**(1990)509
Schennach, S., *see* Degener **A513**(1990) 29
Schiemenz, P., *see* Blasi **A511**(1990)251
Schiffer, K., *see* Lisle **A520**(1990)451c
Schiffer, K., B. Herskind, The population of superdeformed bands in the $A = 150$ region by compound reactions **A520**(1990)521c
Schiffer, K.J., *see* Dracoulis **A520**(1990)353c
Schillaci, A., *see* Durand **A511**(1990)442
Schippers, J.M., *see* Borghols **A515**(1990)173
Schippers, J.M., *see* Woldt **A518**(1990)496
Schippers, J.M., *see* Pignanelli **A519**(1990)567
Schlagel, T.J., *see* Pandharipande **A519**(1990)157c
Schmid, K.W., *see* Petrovici **A517**(1990)108
Schmidt, H.R., *see* Plasil **A519**(1990)449c
Schmidt-Brücken, H.-J., *see* Von Neumann-Cosel **A516**(1990)385
Schmidt-Ott, W.D., *see* Mueller **A513**(1990) 1
Schmitt, H., *see* Büchle **A515**(1990)541
Schmitt, R.P., *see* Utsunomiya **A511**(1990)379
Schmitz, W., *see* Carpenter **A513**(1990)125
Schmitz, W., *see* Murzel **A516**(1990)189
Schmitz, W., *see* Hübel **A520**(1990)125c
Schmitz, W., *see* Lisle **A520**(1990)451c
Schmoll, K., *see* Büchle **A515**(1990)541
Schnare, H., *see* Murzel **A516**(1990)189
Schoch, B., *see* Springham **A517**(1990) 93
Schoch, B., *see* So **A517**(1990)473
Scholtz, F.G., *see* Faessler **A515**(1990)237
Schönhofen, M., *see* Cubero **A519**(1990)345c
Schreckenbach, K., *see* Hoyler **A512**(1990)189
Schreckenbach, K., *see* Beda **A513**(1990) 53
Schrieder, G., *see* Von Neumann-Cosel **A516**(1990)385
Schrieder, W., *see* Taal **A511**(1990)573
Schröder, U., *see* Iliadis **A512**(1990)509
Schröder, U., *see* Seuthe **A514**(1990)471
Schuck, P., *see* Dukelsky **A512**(1990)466
Schuck, P., *see* Ardouin **A514**(1990)564
Schuck, P., *see* Centelles **A519**(1990) 73c
Schuck, P., *see* Chanfray **A519**(1990)311c
Schüll, D., *see* Von Neumann-Cosel **A516**(1990)385
Schulte, W.H., *see* Seuthe **A514**(1990)471
Schulz, H., *see* Barz **A519**(1990)479c
Schulz, H., *see* Barz **A519**(1990)831
Schumacher, M., *see* Rose **A514**(1990)621
Schutz, Y., *see* Nyberg **A511**(1990) 92
Schutz, Y., Mass measurements of exotic fragments **A520**(1990)401c
Schutz, Y.S., *see* Carpenter **A513**(1990)125
Schwalm, D., *see* Eberth **A520**(1990)669c
Schwengner, R., *see* Rotter **A514**(1990)401
Scoccola, N.N., W. Weise, Nonlinear meson theories and electromagnetic polarizability of the nucleon **A517**(1990)495
Scomparin, E., *see* Chivassa **A519**(1990)413c
Sébille, F., *see* Leray **A511**(1990)414
Sébille, F., *see* Ardouin **A514**(1990)564
Sehn, L., H.H. Wolter, Effective interactions and the equation of state in heavy ion collisions **A519**(1990)289c
Semkow, T.M., *see* Nicolis **A520**(1990)153c
Sen Gupta, H.M., J.B.A. England, F. Khazaie, E.M.E. Rawas, G.T.A. Squier, Level structure of ^{61}Cu from the (^{3}He, d) reaction on ^{60}Ni **A512**(1990) 97
Sen Gupta, H.M., J.B.A. England, F. Khazaie, E.M.E. Rawas, G.T.A. Squier, A study of the (^{3}He, p) reaction on ^{60}Ni **A517**(1990) 82
Serci, S., *see* Agnello **A516**(1990)662
Seres, Z., *see* Büchle **A515**(1990)541
Sergi, M.T., *see* Agnello **A516**(1990)662
Serot, B.D., *see* Lin **A512**(1990)637
Sethi, A., F. Todd Baker, G.T. Emery, W.P. Jones, M.A. Grimm

Jr., ^{194,198}Pt($\vec{p}$, p') reaction and the interacting boson model **A518**(1990)536
Seuthe, S., C. Rolfs, U. Schröder, W.H. Schulte, E. Somorjai, H.P. Trautvetter, F.B. Waanders, R.W. Kavanagh, H. Ravn, M. Arnould, G. Paulus, Resonances in the ^{22}Na(p, γ)^{23}Mg reaction **A514**(1990)471
Seyfarth, H., *see* Jarczyk **A518**(1990)583
Shadchin, S.A., *see* Kharchenko **A512**(1990)294
Shapiro, I.S., Triplet Cooper pairing in nuclear matter and high-spin rotational states in heavy nuclei **A518**(1990) 73
Sharma, M.M., *see* Borghols **A515**(1990)173
Sharpey-Schafer, J.F., *see* Riley **A512**(1990)178
Sharpey-Schafer, J.F., *see* Gascon **A513**(1990)344
Sharpey-Schafer, J.F., *see* Cullen **A520**(1990)105c
Sharpey-Schafer, J.F., *see* Riley **A520**(1990)279c
Sharpey-Schafer, J.F., *see* Sletten **A520**(1990)325c
Sheffer, G., *see* Rui **A517**(1990)455
Sheline, R.K., *see* Liang **A520**(1990)361c
Shera, E.B., *see* Kunselman **A514**(1990)589
Shi, J.-Q., *see* Li **A515**(1990)273
Shimizu, H., *see* Ohnuma **A514**(1990)273
Shimizu, K., *see* Koike **A513**(1990)653
Shimizu, Y.R., R.A. Broglia, A comparison of the RPA and number projection approaches for calculations of pairing fluctuations in fast rotating nuclei **A515**(1990) 38
Shimizu, Y.R., How can the transition from the superconduction to the normal phase? **A520**(1990)477c
Shmatikov, M., Weak NN interaction in the Skyrme model: Wrong isotopic relations? **A517**(1990)554
Shor, A., V. Perez-Mendez, K. Ganezer, Internal nuclear momentum and subthreshold anti-proton production in p-nucleus and nucleus-nucleus collisions **A514**(1990)717
Shotter, A.C., *see* Springham **A517**(1990) 93
Sicre, A., *see* Martinez **A515**(1990)433
Siemiarczuk, T., *see* Plasil **A519**(1990)449c
Siemssen, R.H., *see* Rymuza **A517**(1990)159
Simon, R.S., *see* Hughes **A512**(1990)275
Simpson, J., *see* Riley **A512**(1990)178
Simpson, J., *see* Gascon **A513**(1990)344
Simpson, J., *see* Cullen **A520**(1990)105c
Simpson, J., *see* Riley **A520**(1990)279c
Singh, N., *see* Hughes **A512**(1990)275
Siudak, R., *see* Jarczyk **A518**(1990)583
Sivoklokov, S.Yu., *see* Toneev **A519**(1990)463c
Siwek-Wilczynska, K., *see* Wilczynski **A511**(1990)429
Skalski, J., *see* Vergnes **A514**(1990)381
Skeppstedt, Ö., C.J. Lister, A.A. Chishti, B.J. Varley, W. Gelletly, U. Lenz, R. Moscrop, L. Goettig, High-spin structure of ^{79}Rb **A511**(1990)137
Skouras, L.D., J.C. Varvitsiotis, A study of the mass-18 nuclei and the effective interaction in the sd shell **A513**(1990)239
Skouras, L.D., J.C. Varvitsiotis, The effective interaction in the p-shell **A513**(1990)264
Skouras, L.D., H. Müther, Effective interaction derived from the BAGEL approach **A515**(1990) 93
Skouras, L.D., P. Van Isacker, M.A. Nagarajan, A democratic mapping between the shell model and the interacting boson model **A516**(1990)255
Slaus, I., M.B. Epstein, T.E. Mdlalose, H. Fiedeldey, W. Sandhas, Proton-induced breakup of ^{3}He at 35 MeV **A515**(1990) 57
Sletten, G., *see* Riley **A512**(1990)178
Sletten, G., *see* Gascon **A513**(1990)344
Sletten, G., *see* Venkova **A514**(1990) 87
Sletten, G., *see* Cullen **A520**(1990)105c
Sletten, G., N.L. Gjørup, S. Juutinen, A. Maj, J. Nyberg, P.M. Walker, D.M. Cullen, P. Fallon, A.N. James, J.F. Sharpey-Schafer, M.A. Bentley, A.M. Bruce, B.J. Varley, *K*-selection or barrier penetration? **A520**(1990)325c
Smith, A.B., *see* Lawson **A519**(1990)487
Smith, G., *see* Rui **A517**(1990)455
Smith, M.S., *see* Champagne **A512**(1990)317
Smithson, M.J., J.S. Lilley, M.A. Nagarajan, P.V. Drumm, R.A. Cunningham, B.R. Fulton, I.J. Thompson, The threshold anomaly in inelastic scattering **A517**(1990)193
So, K.C., K. Min, L.Y. Murphy, E.J. Winhold, M. Yamazaki, P. Yergin, R.W. Gothe, B. Schoch, C. Bennhold, L. Tiator, S.J. Hall, J.D. Kellie, I.J.D. MacGregor, R.O. Owens, D. Branford, Spin-isospin excitation in ^{12}C(γ, π^+)^{12}B* using tagged photons **A517**(1990)473
Somorjai, E., *see* Iliadis **A512**(1990)509
Somorjai, E., *see* Seuthe **A514**(1990)471
Sørensen, S.O., *see* Bendiscioli **A518**(1990)683
Sorensen, S.P., *see* Plasil **A519**(1990)449c
Sossi, V., *see* Rui **A517**(1990)455
Sperduto, M.L., *see* Cavallaro **A513**(1990)174
Speth, J., R. Tegen, The pion-nucleon form factor in space- and time-like regions **A511**(1990)716
Speth, J., *see* Müller-Groeling **A513**(1990)557
Speth, J., *see* Lohse **A516**(1990)513
Spevak, V.J., *see* Goncharova **A516**(1990) 15
Spina, M.E., *see* Leray **A511**(1990)414

Springham, S.V., D. Branford, T. Davinson, A.C. Shotter, J. Yorkston, J.C. McGeorge, J.D. Kellie, S.J. Hall, R. Beck, P. Jennewein, B. Schoch, A high-resolution study of the $^{12}C(\gamma, p)$ reaction with 49–78.5 MeV tagged photons **A517**(1990) 93
Squier, G.T.A., *see* Sen Gupta **A512**(1990) 97
Squier, G.T.A., *see* Sen Gupta **A517**(1990) 82
Srebrny, J., *see* Kotliński **A519**(1990)646
Srivastava, B.K., *see* Utsunomiya **A511**(1990)379
Stahov, J., *see* Decker **A512**(1990)626
Staudt, A., *see* Mueller **A513**(1990) 1
Steadman, S.G., *see* Kotliński **A519**(1990)646
Steckmeyer, J.C., *see* El Masri **A517**(1990)340
Steckmeyer, J.C., *see* Péter **A519**(1990)127c
Steckmeyer, J.C., *see* Péter **A519**(1990)611
Steffens, K., *see* Plasil **A519**(1990)449c
Steinacher, M., G. Backenstoss, M. Iżycki, P. Salvisberg, P. Weber, H.J. Weyer, A. Hoffart, B. Rzehorz, H. Ullrich, M. Dzemidzić, M. Furić, T. Petković, Pion absorption in flight on ^{4}He **A517**(1990)413
Stenlund, E., *see* Plasil **A519**(1990)449c
Stephens, F.S., Spin alignment in superdeformed rotational bands **A520**(1990) 91c
Stephens, F.S., *see* Henry **A520**(1990)115c
Stephens, F.S., *see* Azaiez **A520**(1990)121c
Stephens, F.S., *see* Becker **A520**(1990)187c
Stevenson, N.R., *see* Rui **A517**(1990)455
Stiliaris, E., *see* Braeunig **A519**(1990)631
Stock, R., *see* Degener **A513**(1990) 29
Stöcker, H., *see* Neise **A519**(1990)375c
Stoks, V.G.J., J.J. De Swart, Analysis of the pp analyzing-power data at 50.04 MeV **A514**(1990)309
Stracener, D.W., *see* Nicolis **A520**(1990)153c
Strikman, M.I., *see* Frankfurt **A515**(1990)599
Stringari, S., M. Traini, O. Bohigas, Momentum distribution in heavy nuclei **A516**(1990) 33
Strobel, G., *see* Furui **A516**(1990)643
Stryjewski, J., *see* Suraud **A519**(1990)171c
Strzalkowski, A., *see* Jarczyk **A518**(1990)583
Stuchbery, A.E., *see* Fabricius **A511**(1990)345
Stuchbery, A.E., *see* Bark **A514**(1990)503
Stuchbery, A.E., *see* Baxter **A515**(1990)493
Stuchbery, A.E., G.J. Lampard, H.H. Bolotin, Gyromagnetic ratios in the transitional nuclei ^{144,146,148,150}Nd **A516**(1990)119
Stuchbery, A.E., *see* Dracoulis **A520**(1990)353c
Stüken, D., *see* Plasil **A519**(1990)449c
Styczen, B., *see* Jarczyk **A518**(1990)583
Styczen, J., *see* Zuber **A520**(1990)195c
Suehiro, T., *see* Ohnuma **A514**(1990)273
Sugimitsu, T., *see* Lee **A519**(1990)221c
Sugita, M., A. Arima, Shape transition of nuclei with mass around $A = 100$ **A515**(1990) 77
Sujkowski, Z., *see* Rymuza **A517**(1990)159
Sullivan, J.P., *see* Péter **A519**(1990)127c
Sullivan, J.P., *see* Péter **A519**(1990)611
Sun, H., *see* Yao **A519**(1990)602
Suraud, E., S. Ayik, J. Stryjewski, M. Belkacem, The Boltzman–Langevin equation and its application to intermediate mass fragment production **A519**(1990)171c
Suzuki, T., Scattering of polarized electrons in isoscalar nuclear transition and the strange anomalous magnetic moment form factor of the nucleon **A515**(1990)609
Suzuki, Y., *see* Tosaka **A512**(1990) 46
Suzuki, Y., Y. Tosaka, Electromagnetic dissociation of ^{11}Li and soft dipole mode **A517**(1990)599
Swenson, L.W., *see* Lisantti **A511**(1990)643
Sydow, L., *see* Böhm **A518**(1990) 58
Szanto de Toledo, A., *see* Liguori Neto **A512**(1990)333
Szanto de Toledo, A., *see* Etchegoyen **A518**(1990)572
Szczurek, A., *see* Ricken **A515**(1990)226
Szymanski, Z., A variety of shapes occurring in different states of atomic nuclei **A520**(1990) 1c
Szymanski, Z., *see* Zuber **A520**(1990)195c
Taal, A., P. David, H. Hänscheid, J.H. Koch, C.T.A.M. de Laat, W. Lourens, F. Risse, Ch.F.G. Rösel, A. van der Schaaf, W. Schrieder, J. Konijn, Deeply bound 1s and 2p states in pionic atoms **A511**(1990)573
Taal, A., *see* Konijn **A519**(1990)773
Tajima, N., Is the signature inversion of energy levels due to the γ-degree of freedom? **A520**(1990)317c
Takagui, E.M., G.R. Satchler, H. Takai, K. Koide, O. Dietzsch, Elastic and inelastic scattering of ^{16}O by ^{92}Zr at energies near the Coulomb barrier **A514**(1990)120
Takai, H., *see* Takagui **A514**(1990)120
Takaki, T., *see* Koch **A512**(1990)699
Takaki, T., *see* Karapiperis **A518**(1990)752
Takayanagi, K., The two-particle-two-hole response **A516**(1990)276
Takeyama, K., *see* Minamisono **A516**(1990)365
Tamain, B., *see* Ardouin **A514**(1990)564
Tamain, B., *see* El Masri **A517**(1990)340
Tamain, B., *see* Péter **A519**(1990)127c
Tamain, B., *see* Péter **A519**(1990)611
Tan, Z.-Q., W.-Y. Ruan, Proton-nucleus optical potential in the alpha-particle model **A514**(1990)295
Tanabe, H., *see* Kohno **A519**(1990)755

Tanaka, K., W. Bentz, A. Arima, Quasi-elastic Coulomb response function for finite systems and elimination of the Landau ghost in the relativistic σ-ω model **A518**(1990)229
Tang, Z., *see* Lisantti **A511**(1990)643
Tanihata, I., Neutron halos and exotic modes **A520**(1990)411c
Tanner, R.J., *see* Hughes **A512**(1990)275
Taras, P., *see* Pilotte **A514**(1990)545
Tarrago, X., *see* Jacquet **A511**(1990)195
Taskinen, P., *see* Äystö **A515**(1990)365
Tegen, R., *see* Speth **A511**(1990)716
Teichert, W., *see* Eberth **A520**(1990)669c
Tengblad, O., *see* Borge **A515**(1990) 21
Tenreiro, C.F., *see* Liguori Neto **A512**(1990)333
Terrien, Y., *see* L'Hôte **A519**(1990)331c
Theine, K., *see* Murzel **A516**(1990)189
Theine, K., *see* Hübel **A520**(1990)125c
Theine, K., *see* Lisle **A520**(1990)451c
Thekkadath, G., *see* Savard **A512**(1990)241
Thomas, A.W., The role of the pion in nucleon structure **A518**(1990)186
Thompson, I.J., *see* Smithson **A517**(1990)193
Thorsteinsen, T.F., *see* Tveter **A516**(1990) 1
Tiator, L., *see* So **A517**(1990)473
Tiator, L., *see* Bennhold **A519**(1990)805
Tikkanen, P., J. Keinonen, A. Kuronen, A.Z. Kiss, E. Koltay, E. Pintye, B.H. Wildenthal, Short lifetimes in ^{29}Si-^{29}P for the test of shell-model wave functions **A517**(1990)176
Tincknell, M.L., *see* Plasil **A519**(1990)449c
Titov, A.I., *see* Kaptari **A512**(1990)684
Tjøm, P.O., *see* Gascon **A513**(1990)344
Todd Baker, F., *see* Sethi **A518**(1990)536
Tohei, T., *see* Ohnuma **A514**(1990)273
Toki, H., *see* Mizoguchi **A513**(1990)685
Toki, H., *see* Castel **A514**(1990)682
Tölle, R., *see* Hughes **A512**(1990)275
Toneev, V.D., N.S. Amelin, K.K. Gudima, S.Yu. Sivoklokov, Dynamics of the relativistic heavy-ion collisions **A519**(1990)463c
Tosaka, Y., Y. Suzuki, Structure of ^{11}Li in the cluster-orbital shell model for the ^{9}Li+n+n system **A512**(1990) 46
Tosaka, Y., *see* Suzuki **A517**(1990)599
Tosello, F., *see* Bendiscioli **A518**(1990)683
Tostevin, J.A., *see* Al-Khalili **A514**(1990)649
Toyokawa, H., *see* Ohnuma **A514**(1990)273
Traini, M., *see* Stringari **A516**(1990) 33
Trautvetter, H.P., *see* Iliadis **A512**(1990)509
Trautvetter, H.P., *see* Seuthe **A514**(1990)471
Tretyak, V.I., *see* Bendiscioli **A518**(1990)683
Trostell, B., *see* Olsson **A513**(1990)205
Trudel, A., *see* Alford **A514**(1990) 49
Trzaska, W., *see* Drigert **A515**(1990)466
Trzhaskovskaya, M.B., *see* Drukarev **A518**(1990)513
Tsan Ung Chan, *see* El Masri **A517**(1990)340
Tsukuma, H., *see* Sakata **A519**(1990) 93c
Tveter, T.S., M. Guttormsen, J. Rekstad, J. Kownacki, T.F. Thorsteinsen, On the ^{171}Yb(^{3}He, α) reaction mechanism **A516**(1990) 1
Twin, P.J., *see* Riley **A512**(1990)178
Twin, P.J., Superdeformation - An experimental overview **A520**(1990) 17c
Twin, P.J., *see* Cullen **A520**(1990)105c
Tyson, K., *see* Westfall **A519**(1990)141c
Udagawa, T., *see* Utsunomiya **A511**(1990)379
Udías, J.M., *see* Retamosa **A511**(1990)221
Ullrich, H., *see* Steinacher **A517**(1990)413
Umnikov, A.Yu., *see* Kaptari **A512**(1990)684
Urban, W., *see* Venkova **A514**(1990) 87
Urban, W., *see* Hebbinghaus **A514**(1990)225
Utsunomiya, H., Y.-W. Lui, L. Cooke, H. Dejbakhsh, D.R. Haenni, P. Heimberg, A. Ray, B.K. Srivastava, R.P. Schmitt, T. Udagawa, Continuous distribution of αt relative kinetic energies in ^{7}Li breakup reactions **A511**(1990)379
Valette, O., *see* L'Hôte **A519**(1990)331c
Van Assche, P.H.M., *see* Kaerts **A514**(1990)173
Van der Leun, C., *see* Kikstra **A512**(1990)425
Vandermeulen, J., *see* Cugnon **A513**(1990)636
Vandermeulen, J., *see* Cugnon **A517**(1990)533
Vander Molen, A., *see* Westfall **A519**(1990)141c
Van der Schaaf, A., *see* Taal **A511**(1990)573
Van der Werf, S.Y., *see* Woldt **A518**(1990)496
Van der Werf, S.Y., *see* Pignanelli **A519**(1990)567
Van der Woude, A., *see* Borghols **A515**(1990)173
Van der Woude, A., Neutron and gamma decay studies of giant resonances **A519**(1990) 17c
Van Hees, A.G.M., *see* Kikstra **A512**(1990)425
Van Hees, A.G.M., *see* Hogenbirk **A516**(1990)205
Van Hienen, J.F.A., *see* Hogenbirk **A516**(1990)205
Van Hove, L., The role of quantum chromodynamics in ultra-relativistic nucleus-nucleus collisions **A518**(1990)389
Van Isacker, P., *see* Hoyler **A512**(1990)189
Van Isacker, P., *see* Skouras **A516**(1990)255
Varley, B.J., *see* Skeppstedt **A511**(1990)137
Varley, B.J., *see* Sletten **A520**(1990)325c
Varvitsiotis, J.C., *see* Skouras **A513**(1990)239
Varvitsiotis, J.C., *see* Skouras **A513**(1990)264
Vasconcellos, C.A.Z., *see* Jäkel **A511**(1990)733
Vasconcellos Gomes, A.C., C.A. Bertulani, Relativistic Coulomb excitation of giant resonances in the hydrodynamical model **A517**(1990)639
Vassanji, M.G., *see* Arickx **A511**(1990) 49
Venaglioni, A., *see* Bendiscioli **A518**(1990)683
Venkova, Ts., R.M. Lieder, T. Morek, W. Gast, G. Hebbinghaus, A. Krämer-Flecken, J.

Schäffler-Kräh, W. Urban, G. Sletten, H. Kluge, K.H. Maier, Study of rotational bands and isomers in the odd-odd nucleus ^{180}Re **A514**(1990) 87
Vento, V., *see* Park **A513**(1990)413
Ventura, A., *see* Guidotti **A516**(1990) 41
Verbitsky, S.S., *see* Glatky **A512**(1990)167
Vercellin, E., *see* Chivassa **A519**(1990)413c
Vergnes, M., G. Berrier-Ronsin, G. Rotbard, J. Skalski, W. Nazarewicz, Evidence for a change of structure in the heavy mercury isotopes around ^{200}Hg **A514**(1990)381
Vervier, J., *see* Naviliat-Cuncic **A514**(1990)145
Veselovsky, A.V., *see* Glatky **A512**(1990)167
Vetterli, M., *see* Alford **A514**(1990) 49
Vetterli, M.C., *see* Lisantti **A511**(1990)643
Vicente-Vacas, M.J., *see* Rui **A517**(1990)455
Vigezzi, E., *see* Barranco **A512**(1990)253
Vigezzi, E., R.A. Broglia, T. Døssing, A model for the decay out of superdeformed bands **A520**(1990)179c
Viñas, X., *see* Centelles **A519**(1990) 73c
Vinet, L., *see* Girard **A512**(1990)149
Vinh Mau, N., *see* Ferrero **A514**(1990)367
Vinh Mau, N., *see* Lassaut **A518**(1990)441
Vinh Mau, R., *see* Furui **A516**(1990)643
Viola, V.E., *see* Pollacco **A519**(1990)197c
Virtanen, A., *see* Nicolis **A520**(1990)153c
Virtue, C.J., K.A. Aniol, F.E. Entezami, M.D. Hasinoff, D. Horváth, H.W. Roser, B.C. Robertson, Photon asymmetry in radiative muon capture on calcium **A517**(1990)509
Vitturi, A., *see* Dasso **A514**(1990)161
Vitturi, A., *see* Maqueda **A515**(1990)118
Vivien, J.P., *see* Zuber **A520**(1990)195c
Viyogi, Y.P., *see* Ardouin **A514**(1990)564
Vlastou, R., *see* Hildingsson **A513**(1990)394
Vlastou, R., *see* Xenoulis **A516**(1990)108
Vogl, U., *see* Klimt **A516**(1990)429
Vogl, U., M. Lutz, S. Klimt, W. Weise, Generalized SU(3) Nambu–Jona-Lasinio model (II). From current to constituent quarks **A516**(1990)469
Vogt, E.G., *see* Kotliński **A517**(1990)365
Volant, C., *see* Pollacco **A519**(1990)197c
Von Brentano, P., *see* Casten **A514**(1990)252
Von Brentano, P., *see* Wrzesiński **A515**(1990)297
Von Brentano, P., *see* Böhm **A518**(1990) 58
Von Brentano, P., *see* Eberth **A520**(1990)669c
Von Egidy, T., *see* Hofmann **A512**(1990)669
Von Neumann-Cosel, P., A. Richter, H.-J. Schmidt-Brücken, G. Schrieder, H. Lenske, H.H. Wolter, J. Carter, R. Jahn, B. Kohlmeyer, D. Schüll, Quasi-elastic single-nucleon transfer in ^{48}Ti + ^{42,44}Ca collisions well above the Coulomb barrier **A516**(1990)385
Von Oertzen, W., *see* Braeunig **A519**(1990)631
Von Rossen, P., *see* Jarczyk **A518**(1990)583
Vorlet, J.P., *see* Salicio **A512**(1990)109
Voronchev, V.T., *see* Kukulin **A517**(1990)221
Voronov, V., V. Ponomarev, Gamma-decay of giant resonances **A520**(1990)619c
Vuong, D., *see* Wong **A515**(1990)686
Waanders, F.B., *see* Seuthe **A514**(1990)471
Waddington, J.C., *see* Nyberg **A511**(1990) 92
Waddington, J.C., *see* Carpenter **A513**(1990)125
Waddington, J.C., *see* Pilotte **A514**(1990)545
Wadsworth, R., *see* Riley **A512**(1990)178
Wadsworth, R., *see* Hughes **A512**(1990)275
Wadsworth, R., *see* Cullen **A520**(1990)105c
Wagner, G.J., *see* Friedman **A514**(1990)601
Wagner, G.J., *see* Woldt **A518**(1990)496
Wagner, P., *see* Richert **A517**(1990)399
Wagner, P., *see* Richert **A519**(1990)203c
Walecka, J.D., The relativistic nuclear many-body problem **A519**(1990)
Walet, N.R., *see* Klein **A515**(1990)207
Walhout, T.S., The equation of state of dense skyrmion matter **A519**(1990)816
Walker, P.M., *see* Sletten **A520**(1990)325c
Wang, C.S., W.D. Myers, Dense matter at nuclear subsaturation densities **A514**(1990)322
Wang, D.A., *see* Huang **A518**(1990)717
Wang, T.R., *see* Görres **A517**(1990)329
Wang, Y., J. Rapaport, Neutron scattering from ^{90,91,92,94}Zr **A517**(1990)301
Ward, D., *see* Pilotte **A514**(1990)545
Ward, D., Studies in superdeformation at Chalk River **A520**(1990)139c
Warner, D.D., *see* Hoyler **A512**(1990)189
Warner, D.D., *see* Kaerts **A514**(1990)173
Warner, R.E., K.M. Berland, W.F. Rulla, D.A. Francis, J.J. Kolata, Z. Ayer, S.E. Darden, X.J. Kong, G. Liu, A. Morsad, S. McGimpsey, A.A. Rollefson, A. Galonsky, A. Nadasen, J.S. Winfield, F.D. Becchetti, Total nuclear reaction probabilities and average cross sections for 16 to 23 MeV ^{6}Li in silicon **A516**(1990)416
Wasserman, I., *see* Bildsten **A516**(1990) 77
Watson, D.L., *see* Hughes **A512**(1990)275
Watson, J., *see* Alford **A514**(1990) 49
Weber, F., M. Weigel, Some aspects of the relativistic many-body theory of baryonic systems **A519**(1990)303c
Weber, K., B. Blättel, V. Koch, A. Lang, W. Cassing, U. Mosel, The relativistic BUU approach **A515**(1990)747
Weber, K., *see* Cassing **A519**(1990)357c

Weber, P., *see* Steinacher **A517**(1990)413
Wehrberger, K., R. Wittman, Pauli blocking for effective deltas in nuclear matter **A513**(1990)603
Weidenmüller, H.A., Ericson fluctuations versus conductance fluctuations: Similarities and differences **A518**(1990) 1
Weidenmüller, H.A., Chaos in nuclei **A520**(1990)509c
Weigel, M., *see* Weber **A519**(1990)303c
Weise, W., *see* Klimt **A516**(1990)429
Weise, W., *see* Vogl **A516**(1990)469
Weise, W., *see* Scoccola **A517**(1990)495
Weise, W., *see* Lutz **A518**(1990)156
Weiss, M.S., *see* Krieger **A517**(1990)275
Weiss, M.S., *see* Bonche **A519**(1990)509
Werner, T., *see* Zuber **A520**(1990)195c
Wesselborg, C., *see* Degener **A513**(1990) 29
Wesselborg, C., *see* Wrzesiński **A515**(1990)297
Wesselborg, C., *see* Zhang **A520**(1990)251c
Westerberg, L., *see* Kotliński **A519**(1990)646
Westfall, G., *see* Etchegoyen **A518**(1990)572
Westfall, G.D., C.A. Ogilvie, D.A. Cebra, W.K. Wilson, A. Vander Molen, W. Bauer, J.S. Winfield, D. Krofcheck, J. Karn, S. Howden, T. Li, R. Lacey, K. Tyson, M. Cronqvist, A. Nadasen, Collective flow, multi-fragment emission and azimuthal asymmetries in intermediate energy nucleus–nucleus collisions **A519**(1990)141c
Weyer, H.J., *see* Steinacher **A517**(1990)413
White, C.A., *see* Hughes **A512**(1990)275
Wiescher, M., *see* Görres **A517**(1990)329
Wilczynski, J., K. Siwek-Wilczynska, An adiabatic nucleus–nucleus fusion potential and nuclear structure effects in sub-barrier fusion reactions **A511**(1990)429
Wildenthal, B.H., *see* Tikkanen **A517**(1990)176
Wile, J.L., *see* Pollacco **A519**(1990)197c
Wilhelmsson, H., Diffusion, creation and decay processes in plasma dynamics: Evolution towards equilibria and the role of bifurcated states **A518**(1990) 84
Wilkin, C., *see* Germond **A518**(1990)308
Wilkinson, D.H., The vector coupling constant and the Kobayashi-Maskawa matrix **A511**(1990)301
Wilkinson, D.H., ^{14}O and friends see the quarks **A518**(1990)138
Willsau, P., *see* Hübel **A520**(1990)125c
Wilschut, H.W., *see* Rymuza **A517**(1990)159
Wilson, W.K., *see* Westfall **A519**(1990)141c
Winfield, J.S., *see* Warner **A516**(1990)416
Winfield, J.S., *see* Westfall **A519**(1990)141c
Winhold, E.J., *see* So **A517**(1990)473
Winkler, P., *see* Pickup **A519**(1990)521
Winter, G., *see* Rotter **A514**(1990)401
Wirowski, R., *see* Casten **A514**(1990)252
Wirowski, R., *see* Andrejtscheff **A516**(1990)157
Wirowski, R., *see* Böhm **A518**(1990) 58
Wirzba, A., H. Bang, The mode spectrum and the stability analysis of skyrmions on a 3-sphere **A515**(1990)571
Wittman, R., *see* Wehrberger **A513**(1990)603
Woldt, P., P. Grabmayr, G. Rau, G.J. Wagner, M.A. Hofstee, J.M. Schippers, S.Y. van der Werf, H. Nann, Testing a sum-rule approach to occupation numbers by the ^{205}Tl(^{3}He, d)^{206}Pb reaction **A518**(1990)496
Wolf, Gy., G. Batko, W. Cassing, U. Mosel, K. Niita, M. Schäfer, Dilepton production in heavy-ion collisions **A517**(1990)615
Wolf, Gy., *see* Cassing **A519**(1990)357c
Wolfs, F.L.H., *see* Janssens **A520**(1990) 75c
Wolfs, F.L.H., *see* Carpenter **A520**(1990)133c
Wolfs, F.L.H., *see* Khoo **A520**(1990)169c
Wolke, K., *see* Iliadis **A512**(1990)509
Wolter, H.H., *see* Von Neumann-Cosel **A516**(1990)385
Wolter, H.H., *see* Bonasera **A519**(1990)211c
Wolter, H.H., *see* Sehn **A519**(1990)289c
Wolters, A.A., *see* Kikstra **A512**(1990)425
Wong, C.W., D. Vuong, K.C. Chu, Strangeness vibrations and the strangeness content of the nucleon **A515**(1990)686
Wood, J.L., *see* Zganjar **A520**(1990)427c
Wörtche, H.J., *see* Engel **A515**(1990) 31
Wozniak, G.J., *see* Charity **A511**(1990) 59
Wozniak, G.J., *see* Moretto **A519**(1990)183c
Wrzesiński, J., A. Clauberg, C. Wesselborg, R. Reinhardt, A. Dewald, K.O. Zell, P. von Brentano, R. Broda, Medium- and low-spin states in ^{143}Nd studied in the (α, n) reaction **A515**(1990)297
Wu, C.-L., Finite particle number effect in high spin B(E2)'s **A520**(1990)459c
Wu, C.Y., *see* Kotliński **A519**(1990)646
Wu, J.Q., *see* Xiong **A512**(1990)772
Wu, Z.G., *see* Xiong **A512**(1990)772
Wyss, R., W. Satuła, W. Nazarewicz, A. Johnson, Competition between triaxial bands and highly deformed intruder bands around ^{180}Os **A511**(1990)324
Wyss, R., *see* Riley **A512**(1990)178
Wyss, R., *see* Carpenter **A513**(1990)125
Wyss, R., *see* Pilotte **A514**(1990)545
Wyss, R., *see* Cullen **A520**(1990)105c
Xenoulis, A.C., A.E. Aravantinos, G.P. Eleftheriades, C.T. Papadopoulos, E.N. Gazis, R.

Vlastou, The competition between p2n, dn and t emission in heavy-ion induced nuclear reactions **A516**(1990)108
Xiong, L., Z.G. Wu, C.M. Ko, J.Q. Wu, Dielectron production from nucleus-nucleus collisions **A512**(1990)772
Xu, J.-C., *see* Zhang **A512**(1990)531
Xu, K., *see* Zhang **A512**(1990)531
Xu, N., *see* Fossan **A520**(1990)241c
Xu, Z., *see* Lisantti **A511**(1990)643
Yamamoto, Y., *see* Sakata **A519**(1990) 93c
Yamamura, M., J. Da Providência, A. Kuriyama, Classical microscopic theory of mixed states **A514**(1990)461
Yamazaki, M., *see* So **A517**(1990)473
Yamazaki, T., Real-pion states formed by virtual-pion beam: New family of nuclear excited states **A518**(1990)213
Yan, J., *see* Casten **A514**(1990)252
Yang, C.X., *see* Hübel **A520**(1990)125c
Yang, Y., S. Gao, The ground-state pattern and single-particle potential of neutron matter **A514**(1990)706
Yao, J., H. Sun, H. Lu, N. Dai, B. Qi, Search for a linear-chain configuration state in the d+^{6}Li system at low incident energy **A519**(1990)602
Yasue, M., *see* Ohnuma **A514**(1990)273
Yates, S.W., *see* Henry **A520**(1990)115c
Yates, S.W., *see* Azaiez **A520**(1990)121c
Yates, S.W., *see* Becker **A520**(1990)187c
Yazaki, K., *see* Koike **A513**(1990)653
Ye, D., *see* Fernandez **A517**(1990)386
Ye, D., *see* Janssens **A520**(1990) 75c
Ye, D., *see* Carpenter **A520**(1990)133c
Ye, D., *see* Khoo **A520**(1990)169c
Yen, S., *see* Alford **A514**(1990) 49
Yennello, S.J., *see* Pollacco **A519**(1990)197c
Yergin, P., *see* So **A517**(1990)473
Yoder, N.R., *see* Pollacco **A519**(1990)197c
Yorkston, J., *see* Springham **A517**(1990) 93
Yoshinaga, N., D.M. Brink, Pair approximation and the OAI mapping for non-degenerate orbits **A515**(1990) 1
Yoshinaga, N., *see* Peres Menezes **A517**(1990)264
Young, G.R., *see* Plasil **A519**(1990)449c
Yu, C.-H., G.B. Hagemann, J.M. Espino, K. Furuno, J.D. Garrett, R. Chapman, D. Clarke, F. Khazaie, J.C. Lisle, J.N. Mo, M. Bergström, L. Carlén, P. Ekström, J. Lyttkens, H. Ryde, High-spin spectroscopic study of ^{167}Lu **A511**(1990)157
Yu, C.-H., *see* Gascon **A513**(1990)344
Yu, C.-H., *see* Zhang **A520**(1990)251c
Yu, C.-H., *see* Riedinger **A520**(1990)287c
Yuasa-Nakagawa, K., *see* Lee **A519**(1990)221c
Zakharov, V.V., *see* Radutsky **A518**(1990)709
Zeldes, N., *see* Ashktorab **A517**(1990) 27
Zell, K.O., *see* Wrzesiński **A515**(1990)297
Zell, K.O., *see* Andrejtscheff **A516**(1990)157
Zenoni, A., *see* Bendiscioli **A518**(1990)683
Zganjar, E.F., J.L. Wood, Electric monopole transitions and shape coexistence in nuclei **A520**(1990)427c
Zhalov, M.B., *see* Frankfurt **A515**(1990)599
Zhang, H.-Q., Z.-H. Liu, J.-C. Xu, K. Xu, J. Lu, M. Ruan, Fission-fragment angular distributions for the ^{19}F+^{208}Pb near- and sub-barrier fusion-fission reaction **A512**(1990)531
Zhang, J.-Y., *see* Carpenter **A513**(1990)125
Zhang, J.-Y., J.D. Garrett, R.F. Casten, D.S. Brenner, C. Wesselborg, C.-H. Yu, M. Carpenter, Empirical estimates of the proton-neutron interaction and diabolical points **A520**(1990)251c
Zhang, Y.-S., Pion scattering from vibrational nuclei in ^{90}Zr and ^{118}Sn **A516**(1990)633
Zhang, Y.H., *see* Détraz **A519**(1990)529
Zhu, Y.-L., *see* Chao **A514**(1990)734
Zieger, A., *see* Rose **A514**(1990)621
Ziegler, B., *see* Rose **A514**(1990)621
Zimányi, J., *see* Csörgő **A517**(1990)588
Ziock, K., *see* Hofmann **A512**(1990)669
Zobov, A.E., *see* Rotter **A514**(1990)401
Zorro, R., *see* Håkansson **A512**(1990)399
Zou, B., *see* Ching **A513**(1990)697
Zuber, K., D. Balouka, F.A. Beck, Th. Byrski, D. Curien, G. Duchene, C. Gehringer, B. Haas, J.C. Merdinger, P. Romain, D. Santos, J. Styczen, J.P. Vivien, J. Dudek, Z. Szymanski, T. Werner, Superdeformed bands in $^{147}_{64}Gd_{83}$: A possible test of the existence of octupole correlations in superdeformed bands **A520**(1990)195c
Zumbro, J.D., *see* Kunselman **A514**(1990)589
Zurmühl, B., *see* Rose **A514**(1990)621

Enrico Fermi International School of Physics, Volume 103

Trends in Nuclear Physics

edited by **P. Kienle**, *Gesellschaft für Schwerionenforschung, Darmstadt, B.R.D.*, **R.A. Ricci** *and* **A. Rubbino**, *Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Legnaro, Padova, Italy.*

1989 xvi + 612 pages Price: US $202.50/Dfl.395.00
Subscription Price: US $172.00/Dfl.335.00 ISBN 0-444-87114-4

This book contains lectures by eminent physicists on the fundamental quark-quark interaction, fragmentation processes at high energies, muon-quark scattering and kaon physics. Complex phenomena involved in the study of nucleus-nucleus collisions, like cold fusion, dissipative processes, nuclear boiling, nuclear stopping, fragmentation, compression, multiparticle production and possibly deconfinement of quarks, are also discussed.

Contents: Introduction *(P. Kienle, R.A. Ricci and A. Rubbino).* Positron lines in heavy-ion collisions: Recent theoretical developments *(J. Reinhardt et al.).* Electron-positron pair creation in heavy-ion collisions *(P. Kienle).* Quarks, hadrons and nuclei *(B. Povh).* The EMC effect *(M.J. Ferrero).* Hyperon compound nucleus *(T. Yamazaki).* Fragment flow, in-medium effects and the nuclear equation of state *(L. Neise et al.).* Experimental observables and the nuclear equation of state *(L.P. Csernai).* Pions and high-energy photons from colliding nuclei *(E. Grosse).* Nucleus-nucleus collisions in the 10 GeV/nucleon energy regime *(S. Nagamiya).* Search for the quark-gluon plasma - The NA35 experiment at the CERN SPS *(R. Stock).* The nuclear shell model - of nucleons or quarks? *(I. Talmi).* The evolution of nuclear structure at high spin *(P.J. Twin).* Superdeformed ^{152}Dy - Population and decay*(B. Herskind and K. Schiffer).* The experiments aimed at synthesizing element 110 *(Y.T. Oganessian et al.).* On the production of superheavy elements and the limitations to go beyond *(P. Armbruster).* On the border of nuclear stability *(M. Bernas).* Astrophysical neutrinos and nuclear physics *(M. Fukugita).* Experimental quests in nuclear astrophysics *(C. Rolfs).* Detection of solar neutrinos *(H. Morinaga).* Some features of nucleus-nucleus collisions at intermediate energies *(C. Détraz).* Some aspects of nuclear dynamics *(C. Grégoire).* From multifragmentation of nuclei to the quark-gluon plasma *(C. Ngô et al.).* Medium-energy heavy-ion collisions - Phase space models *(M. di Toro).* Thermodynamics, reaction mechanisms and the early stages of a nuclear collision *(N. Cindro, M. Korolija and R. Caplar).* Dissipative phenomena and fragmentation in low-energy heavy-ion reactions of medium-mass regions *(R.A. Ricci).* Closing remarks *(P. Kienle).*

NORTH-HOLLAND

Elsevier Science Publishers
P.O. Box 211, 1000 AE Amsterdam,
The Netherlands

In the USA and Canada:
Elsevier Science Publishing Co. Inc.
P.O. Box 882, Madison Square Station,
New York, NY 10159, U.S.A.

US $ prices are valid only in the USA and Canada. In all other countries the Dutch Guilder (Dfl.) price is definitive. All prices are subject to change without prior notice. Customers in the Netherlands, please add 6% BTW. In New York State applicable sales tax should be added.
404/B/389

A special discount offer for private use only!

PHYSICS REPORTS

A Review Section of Physics Letters

Over the years **PHYSICS REPORTS** has built up an international reputation as one of the leading review journals for diverse branches of physics.
Physics Reports keeps the active physicist up to date on developments in relatively narrow fields, by publishing timely reviews which are more than just literature surveys but normally less than a full monograph. They are specialist in nature but will contain enough material to make the main points intelligible to a non-specialist. The reader will not only be able to distinguish important developments and trends but will also find a sufficient number of references to the original literature.

Every month approximately 6 issues are published and to date more than 800 articles have appeared.

All issues of **PHYSICS REPORTS** are available to **individuals only** at a substantial discount under our Bulk Order Scheme. In this way research workers and graduate students will be in a position to afford their own copy of a particular report. Depending on the issue size, the special prices range from US $6.00 to US $18.00.

In order to take advantage of this special offer, you and your colleagues can send your combined orders directly to the publisher, *providing the total order amounts to at least US $75.00*. By meeting this requirement, individual postage, handling and invoicing charges can be avoided. If you would like to receive the full listing of all **PHYSICS REPORTS** published to date - the **Physics Reports Bulk Order Scheme** - please send in the form (or a photocopy of it) below.

Please note that you may combine your order with issues of Surface Science Reports, which are available under a similar scheme.

REQUEST FORM

Please complete and return to:
Mr. H. de Brouwer
NORTH-HOLLAND PHYSICS
(a section of **Elsevier Science Publishers**)
P.O. Box 103, 1000 AC Amsterdam, The Netherlands

☐ Please send me the Physics Reports Bulk Order Scheme, listing all available Physics Reports.

☐ Please send me a copy of the Surface Science Reports Bulk Order Scheme, listing all available Surface Science Reports.

Name _____

Address _____

_____

Date _____ Signature _____

404/J/100

INSTRUCTIONS TO CONTRIBUTORS

1. Manuscripts should be submitted in *duplicate*, clearly typed on *one side* of the paper only, with wide margins and double-line spacing. Original figures should be included; copies of the figures should accompany *each* copy of the manuscript. Half-tones should be avoided especially on instrumentation and line drawings.
2. The paper must have a short abstract in English. Experimental papers must have keywords, see below. Section and subsection headings should follow standard pattern in the journal, e.g.:

   2. Experimental method 2.2. THE NUCLEUS ^{69}Zn *2.1.1. Energy levels.*
3. Footnotes (as few and as short as possible) should be typed at the bottom of the page on which they occur. Do not mix footnotes and references.
4. References should be typed as follows:

   Reference to a paper

   1) P.M. Endt and C. van der Leun, Nucl. Phys. **A214** (1973) 1

   Reference to a book

   2) R. van Lieshout, A.H. Wapstra, R.A. Ricci and R.K. Girgis, in Alpha-, beta- and gamma-ray spectroscopy, ed. K. Siegbahn, vol. 1 (North-Holland, Amsterdam, 1965) p. 501

   Reference to conference proceedings

   3) E.C. Halbert, Proc. Int. Conf. on nuclear physics, Gatlinburg, 1966, ed. R.L. Becker, C.D. Goodman, P.H. Stelson and A. Zucker (Academic Press, New York, 1967) p. 531

   Reference to a laboratory report or preprint

   4) R.H. Bassel, R.M. Drisko and G.R. Satchler, Oak Ridge National Laboratory report ORNL-3240 (1969) p. 54

   All authors should be listed in full, except in the case of a large collaboration. No comments or remarks should be made in the references.
5. Equations should be *carefully* typed or *clearly* handwritten, leaving adequate space for the printer's annotations.
6. Tables, which must have a *short* heading, should be typed on separate sheets of paper.
7. All Greek letters should be underlined in red. The symbol for sum should *not* be underlined. Indicate all euclidean vectors by wavy underlining; do *not* use arrows.
8. Special attention should be paid to characters that can be easily misread, such as i (lower case), I (capital), l (ell), 1 (one), ′ (prime); o (lower case), O (capital), 0 (zero), ° (degree); u, v (vee), ν (Greek nu), V (capital); × (multiplication sign), x, X; 2 (two), z, Z; p, P, ρ (Greek rho); etc.
9. Use the metric system of units and the abbreviations recommended by the SUN commission of the IUPAP, Physica **A93** (1978) 1. The correct abbreviations of some commonly abused units are: sr, fm, keV, mb. Units *must* be correctly abbreviated in the figures.

KEYWORD ABSTRACTS

Keywords are designed to tell a reader what results are reported in an article and what the authors have concluded from these results. They enable other users to retrieve references to your articles based on indexed subjects determined by the Keywords.

Keyword abstracts are coded into a bibliographic data base (Nuclear Structure Reference File) maintained at the National Nuclear Data Center, Brookhaven National Laboratory, Upton, New York 11973, USA. Four-monthly retrievals from this data base are periodically published in the Nuclear Data Sheets under the title "Recent References". Information from this data base is accessible via the RECON System to scientists in the US and Canada or may also be obtained by addressing a request to the National Nuclear Data Center.

While preparing keyword abstracts, authors should follow the conventions given in Nuclear Physics **68** (1965) 1.

JOURNALS IN PHYSICS - 1991

Applied Surface Science
Volumes 47-54 in 32 issues. Price: US $1460.75/Dfl.2600.00

Chemical Physics
Volumes 149-157 in 27 issues. Price: US $1972.00/Dfl.3510.00

Chemical Physics Letters
Volumes 175-185 in 66 issues. Price: US $2997.25/Dfl.5335.00

Computer Physics Communications
Volumes 61.65 in 15 issues. Price: US $1446.75/Dfl.2575.00

Fluid Dynamics Research
Volumes 8 and 9 in 12 issues. Price: US $348.25/Dfl.620.00

Journal of Crystal Growth
Volumes 105-113 in 36 issues. Price: US $3539.50/Dfl.6300.00

Journal of Luminescence
Volumes 49-51 in 18 issues. Price: US $699.75/Dfl.1245.00

Journal of Magnetism and Magnetic Materials
Volumes 94-102 in 27 issues. Price: US $2199.50/Dfl.3915.00

Journal of Non-Crystalline Solids
Volumes 127-136 in 30 issues. Price: US $2163.00/Dfl.3850.00

Journal of Nuclear Materials
Volumes 176-184 in 27 issues. Price: US $2199.50/Dfl.3915.00

Materials Letters
Volumes 10 and 11 in 24 issues. Price: US $393.50/Dfl.700.00

Materials Science Reports
Volumes 6 and 7 in 16 issues. Price: US $376.50/Dfl.670.00

Nuclear Instruments and Methods in Physics Research - Section A
Accelerators, Spectrometers, Detectors and Associated Equipment
Volumes 297-309 in 39 issues. Price: US $4309.00/Dfl.7670.00

Nuclear Instruments and Methods in Physics Research - Section B
Beam Interactions with Materials and Atoms
Volumes 53-61 in 36 issues. Price: US $2983.25/Dfl.5310.00
Reduced combined 1991 subscription to Nuclear Instruments and Methods in Physics research - A and B:
Price: US $6612.75/Dfl.11,770.00

Nuclear Physics A
Volumes 521-535 in 60 issues. Price: US $4255.75/Dfl.7575.00

Nuclear Physics B
Volumes 347-365 in 57 issues. Price: US $5390.50/Dfl.9595.00
Reduced combined 1991 subscription to Nuclear Physics A and B:
Price: US $7927.00/Dfl.14,110.00

Nuclear Physics B - Proceedings Supplements
Volumes 19-23 in 10 hardcover issues
Price: US $702.25/Dfl.1250.00
Reduced 1991 subscription if combined with Nuclear Physics B or Nuclear Physics A and B: US $578.75/Dfl.1030.00

Optics Communications
Volumes 80-85 in 36 issues. Price: US $1230.50/Dfl.2190.00

Physica A - Statistical and Theoretical Physics
Volumes 170-179 in 30 issues. Price US $1994.50/Dfl.3550.00

Physica B - Condensed Matter Physics
Volumes 168-174 in 28 issues. Price: US $1396.25/Dfl.2485.00

Physica C - Superconductivity
Volumes 172-184 in 78 issues. Price: US $2592.75/Dfl.4615.00

Physica D - Nonlinear Phenomena
Volumes 47-52 in 18 issues. Price: US $1196.75/Dfl.2130.00
Reduced rates are available for combined subscriptions to Physica - please contact the publisher for details.

Physics Letters A
Volumes 150-159 in 90 issues. Price: US $1685.50/Dfl.3000.00

Physics Letters B
Volumes 253-271 in 76 issues. Price US $3202.25/Dfl.5700.00

Physics Reports (including Computer Physics Reports)
Volumes 201-214 in 84 issues. Price: US $2359.75/Dfl.4200.00
Reduced combined 1991 subscription to Physics Letters A, Physics Letters B & Physics Reports: Price: US $6281.00/Dfl.11,180.00

Solar Energy Materials
Volumes 23 and 24 in 8 issues. Price: US $320.25/Dfl.570.00

Solid State Ionics
Volumes 44-50 in 28 issues. Price: US $1180.00/Dfdl.2100.00

Surface Science
Volumes 241-257 in 51 issues. Price: US $4145.75/Dfl.7395.00

Surface Science Reports
Volume 14 in 8 issues. Price: US $182.75/Dfl.325.00
Reduced combined 1991 subscription to Surface Science (including Surface Science Letters), Applied Surface Science and Surface Reports: US $5368.00/Dfl.9555.00

Ultramicroscopy
Volumes 37-41 in 20 issues. Price: US $955.25/Dfl.1700.00

Please note that prices are subject to exchange rate fluctuations. The Dutch guilder price is definitive, unless otherwise stated. All prices include postage & handling charges. Please contact the publisher for information on delivery rates.

NORTH-HOLLAND

(ELSEVIER SCIENCE PUBLISHERS)

P.O. Box 103, 1000 AC Amsterdam, The Netherlands

Elsevier Science Publishers, Journal Information Center, PO Box 882, Madison Square Station, New York, NY 10159, U.S.A.

404/j/jnls.105